December 2007 / £3.60 / Issue 20

PREVIEWS: 1:48 RAF CHINOOK ■ KINGTIGER WITH ZIMMERIT ■ AND MORE...

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THE JIMMY

Full size refs on the GMC 6x6 truck

A CLASS DEUCE AND A HALF

Modelling the Tamiya 1:48 GMC by Luciano Rodriguez

ALL AMERICAN AIRBORNE

Matt Wellhouser constructs S&T's 120mm US Para

ASSAULT HOWITZER

Building Dragon's StuG 42

■ All the information you'll ever need to create the best military models... ■

Contents - Issue 20 December 2007

Model MILITARY INTERNATIONAL

REGULARS

p 4 NEWS
Events, clubs and shows, plus industry announcements

p 44 BOOK REVIEWS
A look at the latest titles to land on our doorstep

p 48 LETTERS
The place to air your comments, suggestions and thoughts

p 58 INCOMING
New kits, products and accessories get our initial thoughts

p 66 LAST POST
This month we explain how to dirty those road wheels

FEATURES

p 6 PREVIEW
Dragon's new Kingtiger with zimmerit

p 8 DUG IN DEFENDER
Mike Tooth builds a diorama incorporating AFV Club's 1:48 late Tiger I

p 14 PREVIEW
Ian Ruscoe checks out Italeri's latest Blackhawk, the MH-60K

p 16 ASSAULT HOWITZER
Kev Smith details Dragon's 10.5cm armed Stug III

p 24 A CLASS DEUCE AND A HALF
Step by step guide to finishing the Tamiya 1:48 GMC

p 32 FULL SIZE REFERENCE
To complement the GMC build, David Doyle supplies some photos of the real thing

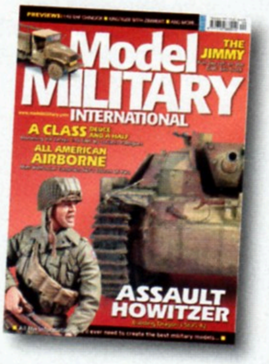
p 38 HAPPY 40TH
Historex Agents celebrate 40 years in the business

p 40 PREVIEW
Paul Egerton takes a look in the box of Italeri's latest 1:48 Chinook

p 42 PREVIEW
Dragon's Panzer III J gets our initial impression

p 50 TRIGGER HAPPY
Paul Egerton reviews Iwata's TR-1 airbrush

p 52 ALL AMERICAN AIRBORNE
Matt Wellhouser returns with S&Ts 120mm US Para



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Diary Dates...

November 10th / 11th
IPMS Scale Modelworld 2007 to be held at the Telford International Centre, incorporating the IPMS (UK) Annual Competition and the Trumpeter Competition.

November 18th
Scale Model Factory, the South-East Netherlands chapter of Twenot, the Dutch Armour Association will be holding "Military Scale Model Challenge 2007" in Eindoven, Holland.
scalemodelfactory@hotmail.com
Tel : +31 40 2487070 (after 7.30 pm)
mobile : +32 474 654821 (daytime and in the evening)
www.everyoneweb.com/scalemodelfactory

November 24th
IPMS Netherlands present 'Euro Scale Modelling' at their annual show at the Nieuwegein Business Centre, Blokhoeve1, 3438 LC Nieuwegein, (close to Utrecht) The Netherlands. Doors open to the public at 10am and entry is 5 euro per person (free for IPMS members and also for foreign IPMS members).
http://www.ipms.nl/nationls.html (English version available)

November 25th
BUGLE CALL 2007
Bristol area BMMS will be holding their 34th annual show at the Pavilion North Parade Road, Bath. Doors open at 10am - 4.30pm.
Tel: 0117 9732067 or email *bob@orrs,freeserve.co.uk*

February 3rd
IPMS Milton Keynes present ModelKraft 2008 to be held at the new venue, Stantonbury Leisure Centre, MK14 6BN. Open 10am - 4pm. Over 500 free car parking spaces. A café will be offering refreshments.
www.mksmc.co.uk

February 17th
IPMS Wakefield present Huddersfield 2008 to be held at the Huddersfield Sports Centre, Southgate, Huddersfield, West Yorkshire HD1 1TW. For information go to *http://groups.msn.com/ipmswakefield/huddersfield08.msnw* or *andrewscholefield@yahoo.co.uk*

Bernhard Lustig PZIV/70 Gold

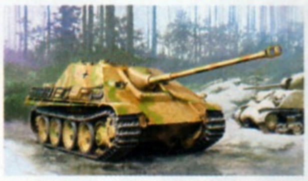
Mario Eens T34/76 CHT2 Gold

GOLD MEDAL

Congratulations to Mario Eens and Bernard Lustig for gaining well deserved Gold Medals in Class 13 (single military vehicle kits) at Euro Militaire. This class was by far the hardest to Judge and I should know, I helped Rudi Meir to judge it!
The standard of the models was very impressive, and it was also nice to see a real mix of subjects and scales. The attention to detail and the incredibly subtle and realistic painting really made these two winners. It also goes to show that a model in a single colour can be every bit as impressive as some multi coloured camo. Well done to Mario and Bernard.
The Editor.
(Photos by Vinnie Branigan)

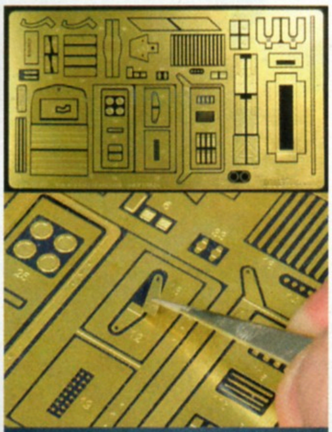
TAMIYA NEWS

Following the recent release of their 1:16 scale radio controlled Panther Ausf. G, Tamiya have announced an R/C version of the Jagdpanther hunting tank, armed with the deadly 88mm gun.
1:35 scale armour fans have not been forgotten with the announcement of an all new JS-2 Model 1944 ChKz Russian Heavy tank, which will include etched metal engine grilles and both link/length and one-piece vinyl tracks.
Lastly we have a German Army version of the French Char B1 bis tank. This will include a concrete armour moulding to supplement the standard armour along with German pattern tools and a new commander figure. *www.tamiya.com*



PRIZE DRAW AT IPMS NATS

Those of you planning to visit the IPMS/UK Nationals at Telford in November will be able to enter the prize draw being held by Model Wholesale Ltd. They will hold the draw at the end of the show, with a minimum of 10 prizes worth over £300. Prizes will include a 1:144 Dora rail gun, 1:16 Ferrari, 1:32 truck, Japanese temple, Captain Scarlet, 1:48 Fine Molds aircraft + upgrade parts, Fine Molds anti-tank gun (metal kit), Star Wars kit, 1:24 pick-up truck, etc., so don't forget to drop by their stand!



IDF M325 Medium Version
MIG

NUN NUN's on the way

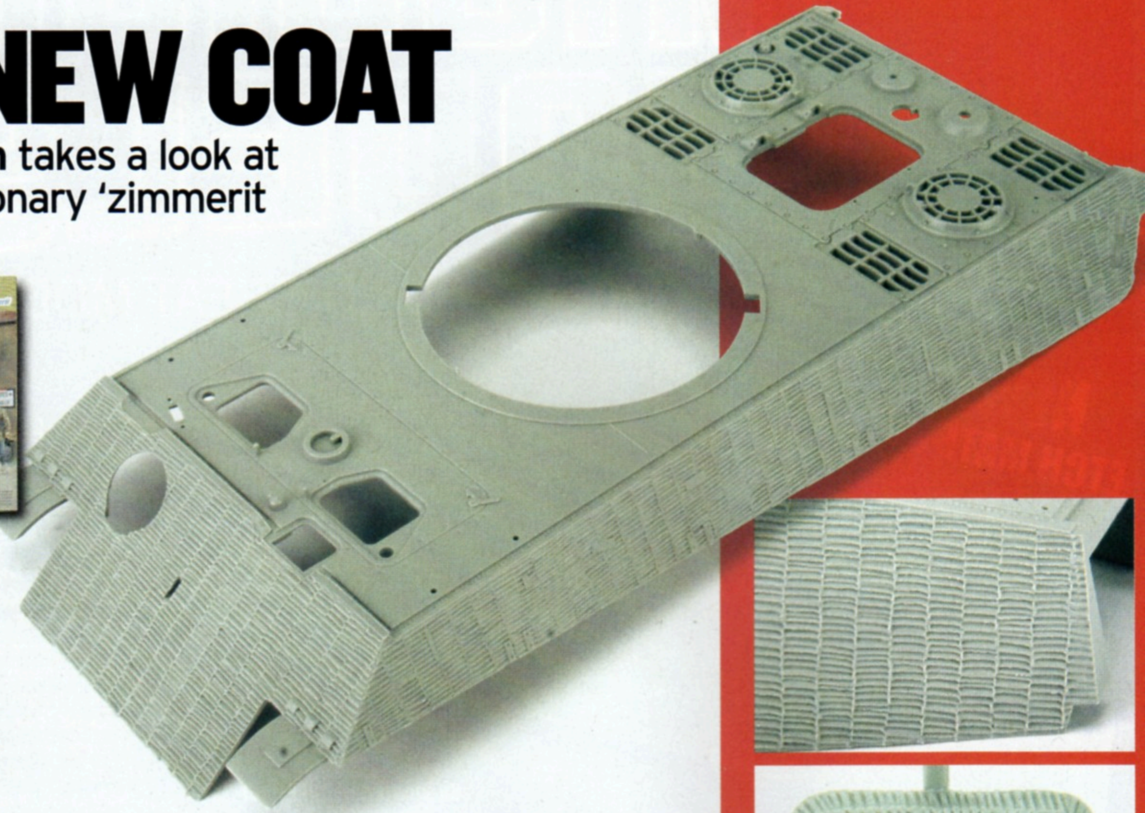
MIG Productions has just announced the release of two versions of the famous M325 Nun-Nun Command car. Both have been produced as multi-media kits, which include their revolutionary photo-etched brass set without connectors, thus allowing the parts to simply be peeled from the adhesive backing sheet. Along with the new photo-etch the kits include transparent resin headlights and a clear plastic windshield. Brass rod and wire are also included to construct the rear-view mirror mounts and framing for the tarpaulins.
Distributed in the UK by Creative Models (*www.creativemodels.co.uk*)
www.migproductions.com

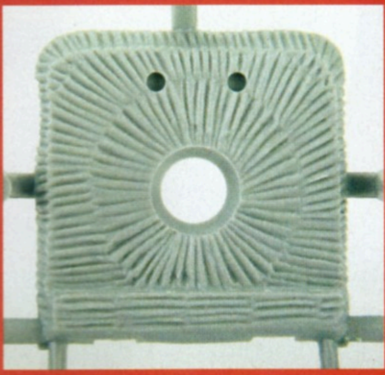
CAT'S NEW COAT

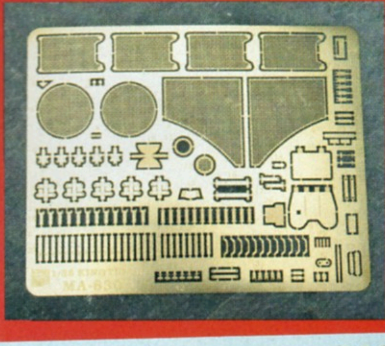
Darren Thompson takes a look at Dragon's revolutionary 'zimmerit coated' Kingtiger.

Sd.Kfz.182
KINGTIGER HENSCHEL TURRET w/ZIMMERIT
DRAGON

DRAGON
Magic Track







O K, hands-up those of you who have avoided building a particular mark of German tank, or self-propelled gun, because the task of applying the zimmerit was just too nerve-racking? Plenty of us I'm sure, but the panic may be over.

Dragon's latest release of the 'Kingtiger Henschel turret', borrows heavily from its previously released Kingtiger (Kit No.6232), but with the added advantage of having the zimmerit moulded in-situ on the appropriate parts.

The upper hull, lower front and rear hull plates and the turret shell, have all been treated to a coat of the anti-magnetic paste and I have to admit, that the results are really rather good.

One of the most difficult things about applying your own zimmerit is keeping the layer of putty sufficiently thin, whilst still being deep enough to retain the texture. Dragon seem to have got this about right, the new hull plates are only fractionally thicker than their previous release, but the texture is well defined and should come into its own once the weathering process begins. Dragon have also managed to keep the hand applied feel to the zimmerit, the pattern is not so uniform as to make it look unrealistic, as has been the case with previous attempts at injection-moulded zimmerit.

The side hull fixing points are all cleanly defined within the zimmerit, another tricky thing to get right with putty, but there are no provisions for locating the turret track-hanging brackets as it would have spoiled the zimmerit, you'll have to position these yourself if you use them.

The only problem I can see being an issue, is how easy it's going to be to 'damage' the zimmerit, rather than build it with a factory fresh appearance. The included booklet recommends sanding away the surface, but quite how plausible that is, remains to be seen, it also begs the question, will Dragon release a version with damaged zimmerit in the future?

As for the rest of the kit, the moulding is well up to Dragon's usual high standard, with no visible knock-out pin marks, except for those on the inner faces of the new 'Magic Track' links.

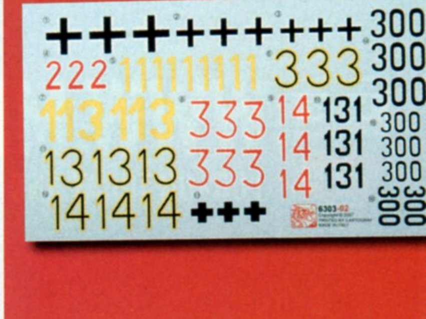
A superb decal sheet provides markings for eight different vehicles and there is the option of a plastic or metal main gun barrel.

An etched fret comprises engine deck screens, tool clasps and stamped bases for the three turned brass 88mm rounds, that are also included.

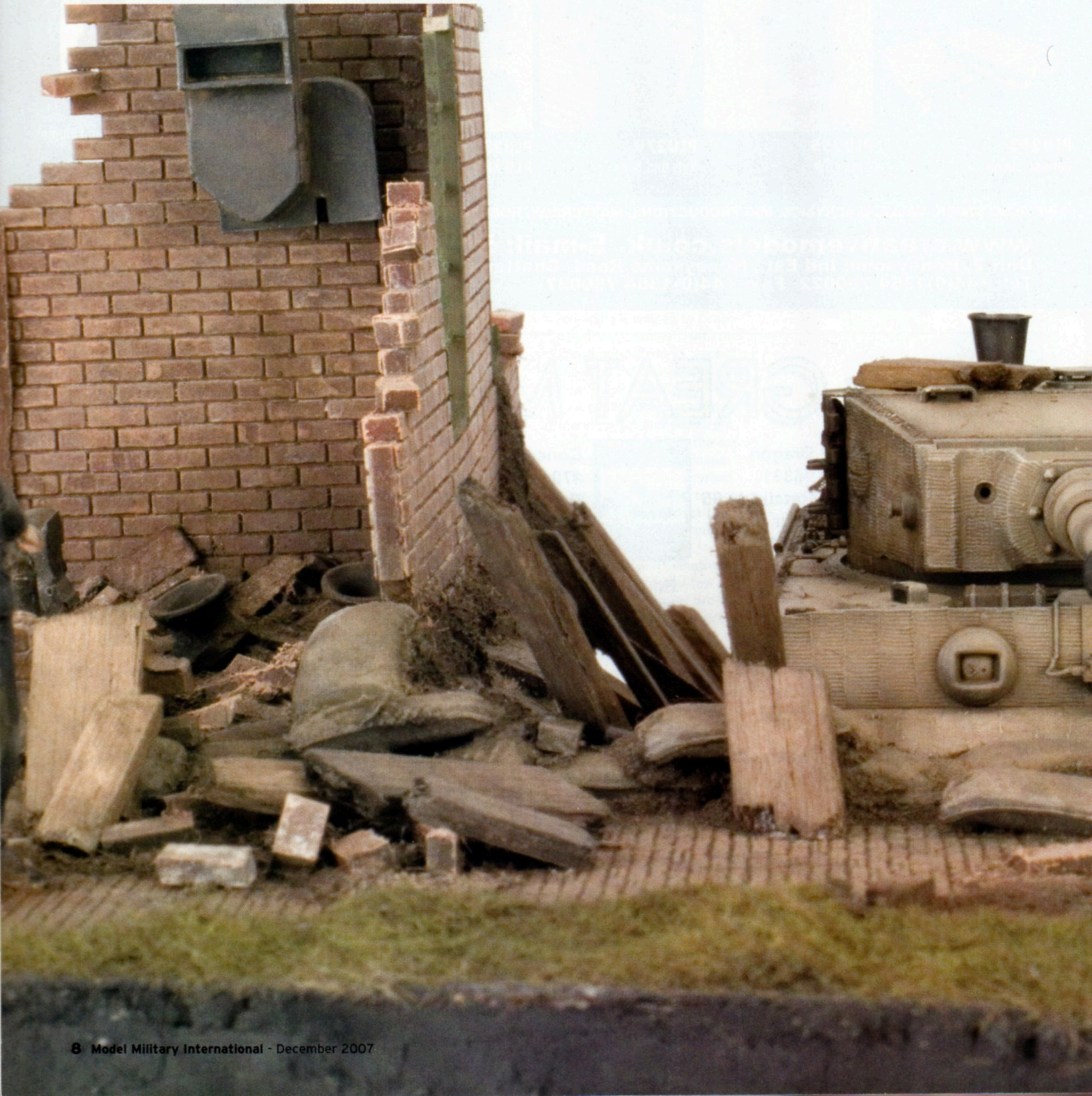
Finally, a short length of chain, a soft braided metal tow cable, clear periscopes and pre-formed headlight conduits complete the package.

I think Dragon are on to a real winner with this idea and I'm sure it won't be long before many more of Dragon's previously released kits are revisited in this fashion.

Highly recommended. ■



DUG IN DEFE



ENDER

Mike Tooth describes how he created his latest quarter-scale diorama.

Yes, I know, another Tiger!! When I was given the Early Tiger used in the 'Standing Defiant' diorama (MMI Issue 16), I was also given a Skybow Late Tiger so this was built as well. What I want to concentrate on this time however, is the diorama itself. When I built this, over a year ago now, there wasn't that much on the market in 1:48 scale and there still isn't much in the way of scenic items now, however, with plastic card, plywood and balsa, there isn't much you can't build. Another Tiger going along the road would have been too dull but 'dug-in' seemed a more interesting proposition. The basic pit was built up using thin plywood and the walls were covered in pre-cut balsa planking. The great thing about balsa is that it's cheap and very easy to use as well as coming in a phenomenal variety of pre-cut shapes.

ROADWORKS

For the surrounding pavement/road, I used one of Slater's textured plastic cards. These are an absolute godsend to the diorama maker and come in a quite staggering choice, from cobblestones to roof tiles to dry stone walling. They come in various scales and shapes, usually in A4 sheets, are easy to cut and glue, and save hours on the time it would take making the equivalent patterns in plaster. For the grass verge it was just a case of gluing down some Woodland Scenic static grass. I should say if it wasn't for model railway enthusiasts we wouldn't have any of this stuff, so if you do have a model railway shop nearby, it's well worth checking out the scenic items. Finally, where I intended to put the ruined factory, I once again used some textured plastic card this time in a tread plate pattern.

There aren't many ready- made buildings available and, although scratch-building is an option, a bit of help doesn't hurt, so the Tamiya brick wall accessories pack was used. This is the same as the old 1:35 version scaled down for 1:48 and includes wall sections, sand bags and anti-tank obstacles and, if anything, actually looks better in the smaller scale. Building up wall sections is simplicity itself with the 'Lego' like parts and, to fill in holes and break up the end pieces, pre-cut plastic strip can be formed into single bricks, which are also useful for making the rubble.

For the window frames I used yet another model railway product (and no, I haven't got a model railway layout), this time the resin frames available from Port Winnstay Models which come in a variety of shapes and sizes making them suitable for 1:76, 1:48 and 1:35 scales. They are easy to cut and shape, and I used pack PW33 which has four medium and four small frames.

For the ruined factory equipment I was lucky enough to have access to some resin Lusitania ship pieces made by fellow modeller Stuart Williamson for his 1:76 scale model of said ship. Again, I found a use for something entirely different but which suits the purpose just as well, Phil Stutcinskas summed this up with the phrase 'creative gizmology'.

MAKING MUD

For the mud I used (this is getting tedious now!) another model railway product called Hydrofibre. It is produced by a Belgian company called ER Euro-Rail, and I was given some sample packs a couple of years ago. It is a two part substance of strange spongy material that you mix with water and you end up with one of the most realistic and malleable muds you can get. The great thing about it is that what you don't use can be stored in an airtight container and it lasts forever. Unfortunately I don't know of a British importer but if anyone does, can they let us know via the letters page?

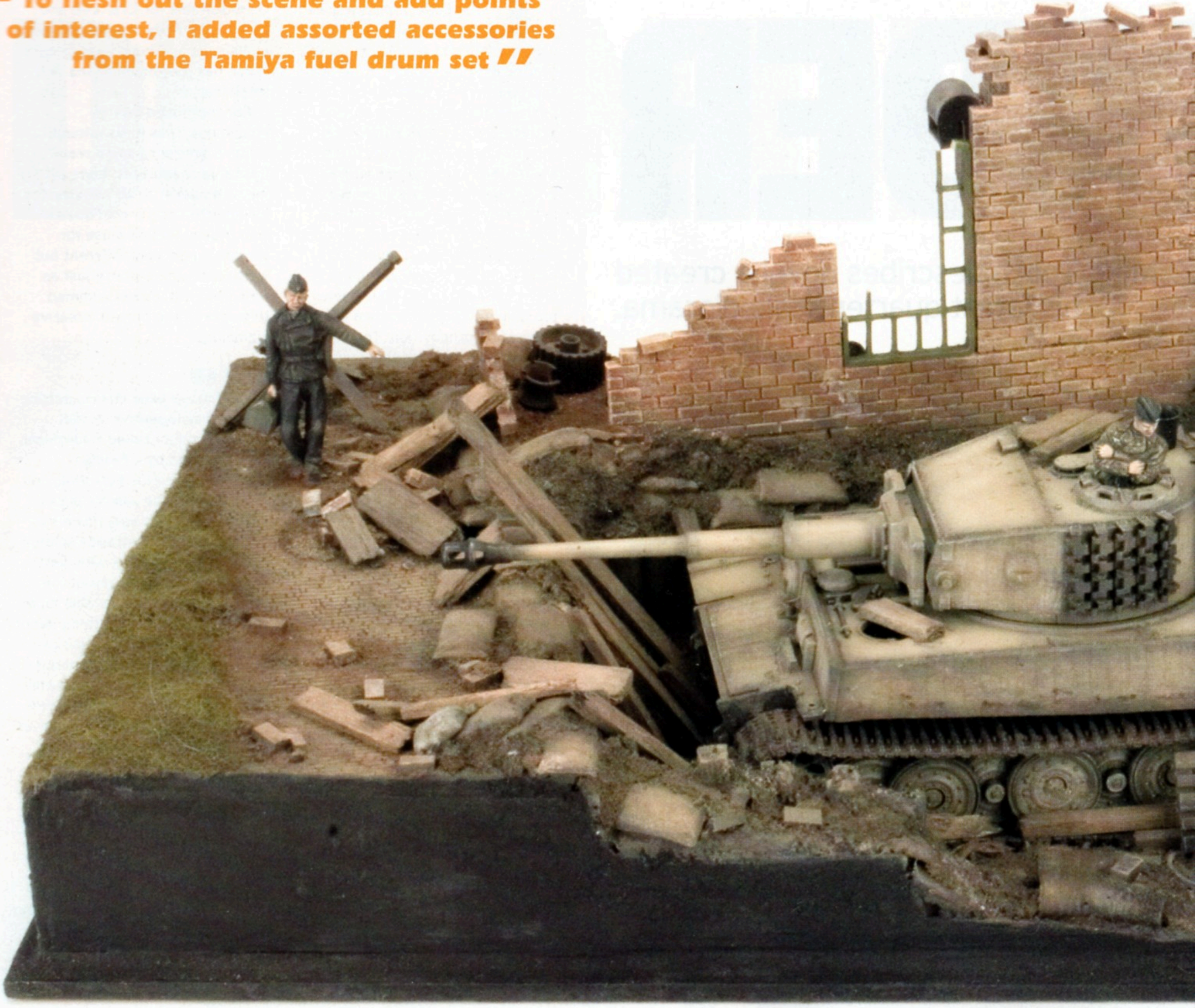
DRESSING THE SCENE

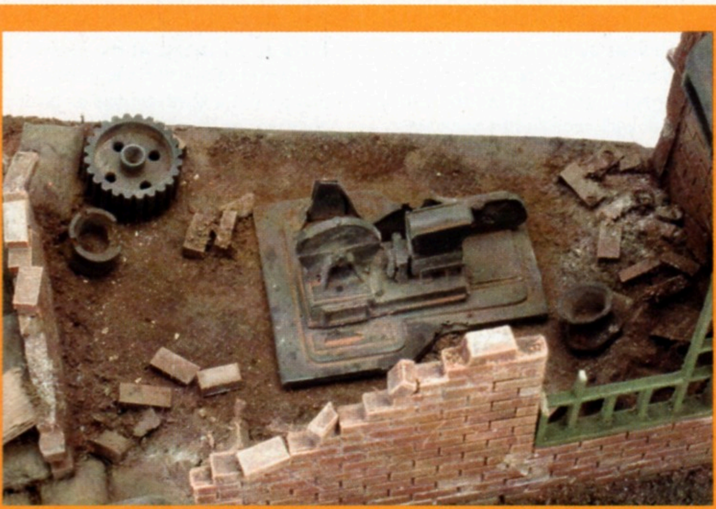
To flesh out the scene and add points of interest I added assorted accessories from the Tamiya fuel drum set. The crushed oil drums are from a wargaming company 'Marbeth Designs', who I'm sure no longer exist and I don't know the name of the company that took them over. What I would suggest is getting along to your local wargame show where you will find many unusual items which, with a little creativity, can be used in all sorts of situations. At the moment, I'm putting together a diorama using what are advertised as pirate accessories, crates, barrels and sacks, as stores for the US Army at a winter command post.

FIGURES

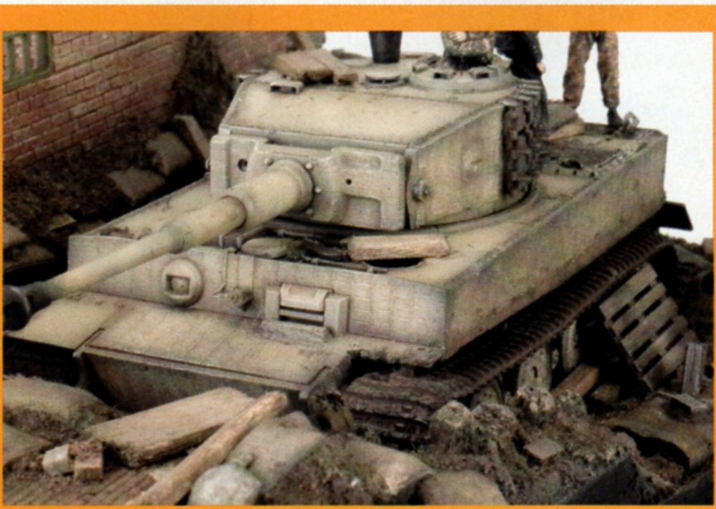
More and more figures are now being released in 1:48 scale but unfortunately, quality and scale height vary alarmingly. However, if there is one manufacturer you can always rely on, it's Dartmoor figures and these are from their older range. In the next few months I'll be showcasing some of their new releases and the almost casual brilliance of the sculpting by Peter Morton which is even more surprising when you realise he can ▶

> **"To flesh out the scene and add points of interest, I added assorted accessories from the Tamiya fuel drum set"**

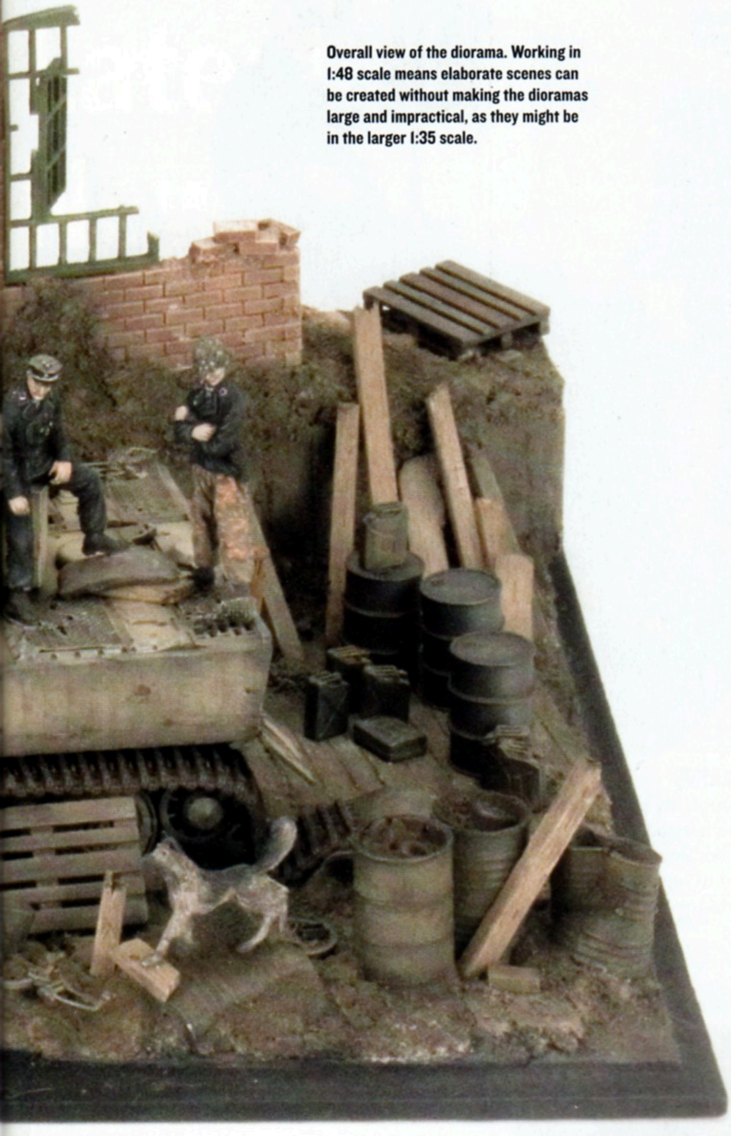




Parts from ship models along with items from the spares box have been used to fill the interior of the ruined factory building. Old watches and wind-up toys are a great place to find various sized gears and cogs, perfect for this type of setting.



From this view we can see the Tiger is in less than perfect condition, with a broken track and missing driver and loader's hatch. As long as the gun worked it could be used to defend the Fatherland.



Overall view of the diorama. Working in 1:48 scale means elaborate scenes can be created without making the dioramas large and impractical, as they might be in the larger 1:35 scale.

produce a figure in less than a day. In all honesty I think these figures are better than most 1:35 offerings. One thing I should mention is that they are white metal which I now prefer to resin. Breakages, air holes and mis-casting are a thing of the past, and they are just as easy to cut and rework as resin.

As I mentioned before, I made this diorama over a year ago and since then I've radically altered the way I paint to the extent that this now looks painfully basic, but of course I have to write about what I've done not how I would do it now. The Tiger has been pretty much knocked out but, as long as the gun works, it would still have a use with the hard pressed German forces. The Skybow/AFV Club Late Tiger is a great little kit, the zimmerit pattern is a particularly impressive piece of work and saves a lot of heartache over having to add it by hand. The only changes I made were to cut a little battle damage with a knife, break up the tracks and leave off the tools but leave the remains of the tool clamps, which were fashioned from the spare metal surrounds of etched frets; just snip off a small length and bend to shape.

PANZER COLOURS

I've been experimenting for quite a while now with getting various shades of Panzer yellow. Surviving accurate colour sources are available and show a wide variety of tones. A good example is the last colour footage shot during the war, of StuGs on the river Oder defences, and although the film has lost colour, what is obvious is how pale the Panzer yellow was. Yet, photographs of Hitler reviewing newly produced Hetzers show incredibly richly coloured, almost toffee looking, vehicles and the difference isn't service life, they are plainly painted in different colours. I find recent attempts, by some to categorically define panzer yellow both pointless and absurd.

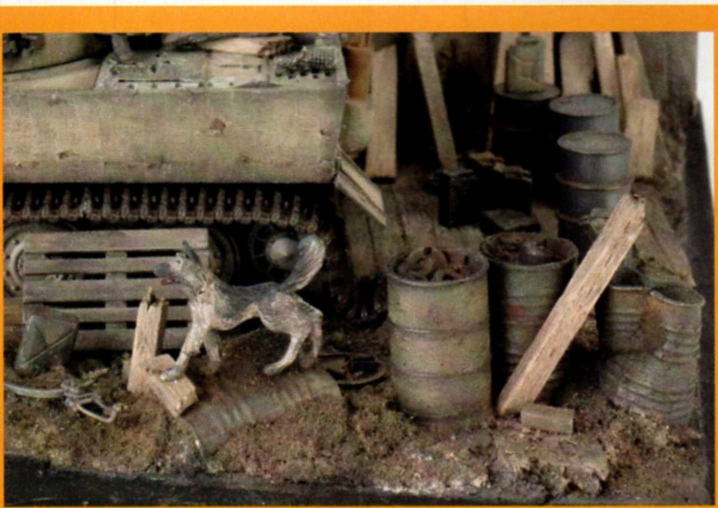
Anyway, a colour I really like using is Tamiya flesh. I know it sounds an odd choice but I think it works really well, although I was still hesitant about using it neat when I painted this late Tiger and mixed in a little Tamiya buff and desert yellow. This dulled the aspect more than I wanted, but you learn more through experimentation and mistakes when actually painting models than any other way. I genuinely do not understand modellers who collect kit after kit with the intention to build them in the future which somehow never seems to arrive - just do it now, that's what they are there for and not for using as loft insulation.

TECHNIQUES

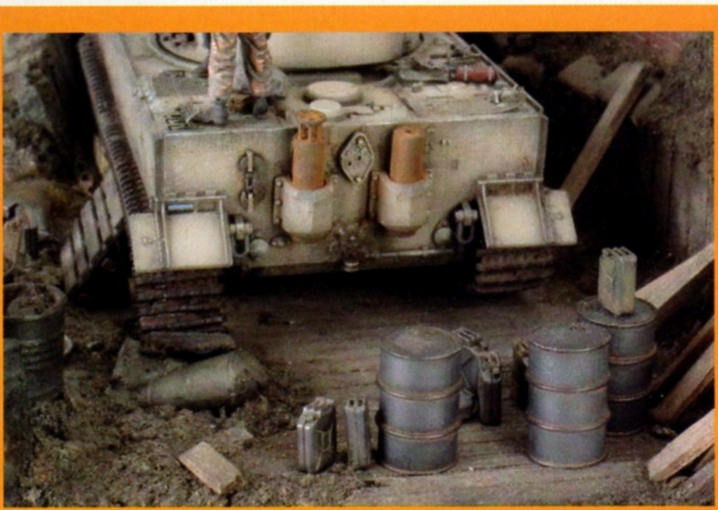
Weathering and detailing was the good old oil washes, pastels routine, it's been written about lots of times in every model magazine, so I don't think it needs repeating here. Hopefully in the future I will have something different to write about which will make for worthwhile reading, because to be honest how much of a modelling magazine do you read? All I usually do is look at the pictures and read the captions. Of course you could say, if I was a better writer I'd have some new way of interpreting my "modelling mantra", but that ain't happening.

BRICKWORK

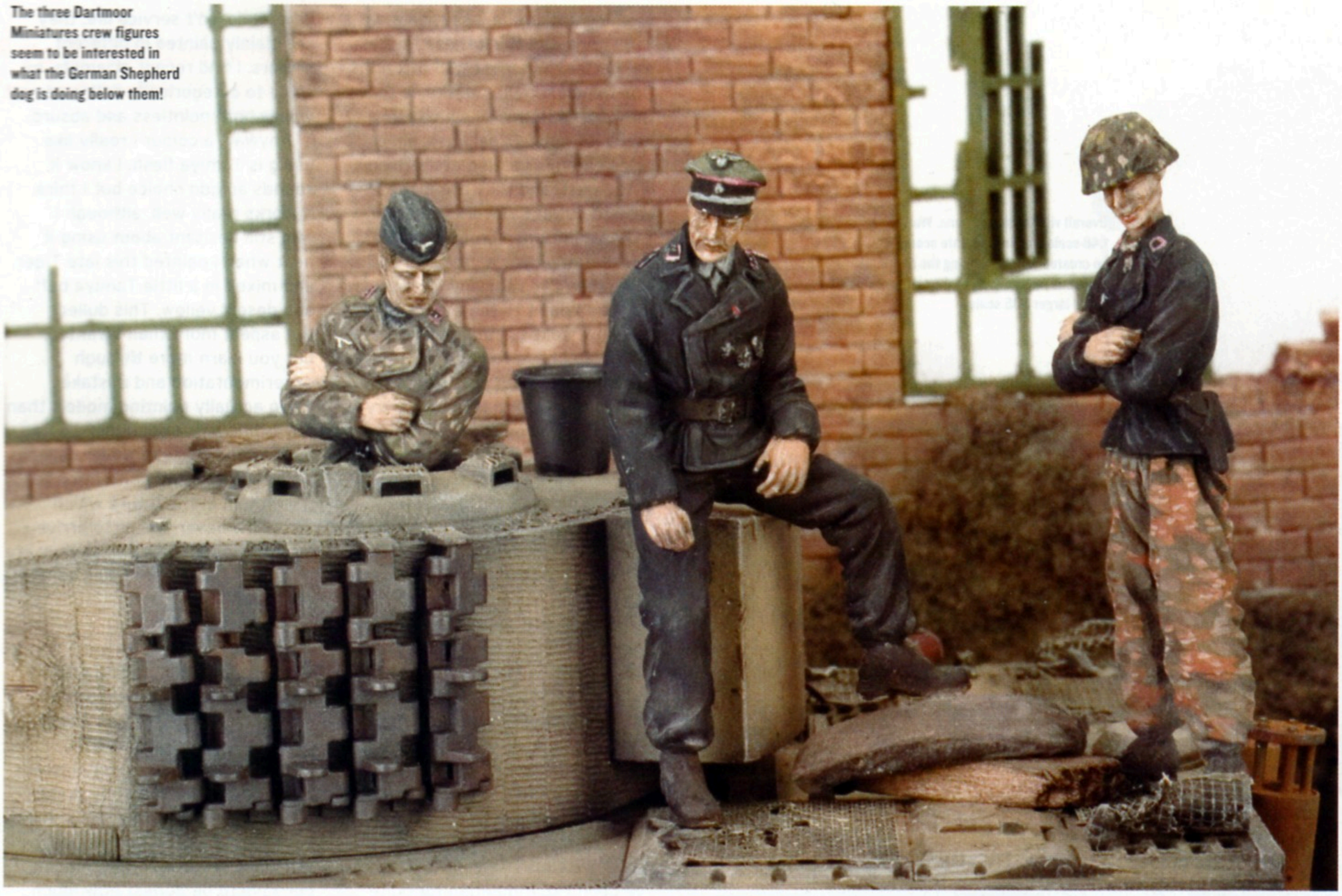
Now the brickwork was painted in a vaguely interesting way, if painting bricks can in any way be described as interesting. The base colour is a mix of Tamiya Red



The crushed and damaged oil drums used here are actually designed for wargaming, but have proved to be ideal for dressing this corner of the scene. The dog is included in Dartmoor's Panzer troop set (48008).



The jerry cans and fuel drums behind the Tiger came from Tamiya's 1:48 Jerrycan and Accessory set (32510).



The three Dartmoor Miniatures crew figures seem to be interested in what the German Shepherd dog is doing below them!

Brown and Flat Red with a touch of Black so it basically looks like a dark brick colour; this is followed up with mixed shades using flat red and flat yellow getting lighter and lighter sprayed randomly and patchily with a few final touches of Tamiya Buff. The finished result will look alarmingly bright but is soon toned down with the following, to bring out the detail. A dark brown oil wash, rapidly dried with a hair dryer, is followed with one of white enamel mixed with white spirit, to the consistency of skimmed milk, and applied liberally then wiped off with a cloth so it stays in the cracks, this will dry randomly and mix with the previous oil wash. When this is dry, a dry brush with a light brick orange colour, which you mix to suit (using enamels), will bring out the detail and texture of the smooth plastic. Finally, after this has dried for about 20 minutes, I do a last wash of white enamel heavily thinned; this will slightly lift and mix the enamel dry-brushing and give a very natural variegation in the brickwork colours.

CONCLUSION

Although my painting techniques have changed a lot since building this diorama, it has still been a project I have enjoyed working on and the challenge of turning the idea I had in my mind into a three dimensional reality is always very satisfying. Hopefully as 1:48 armour becomes more and more popular, I will be spoilt for choice for my future diorama subjects. ■

Modelspec

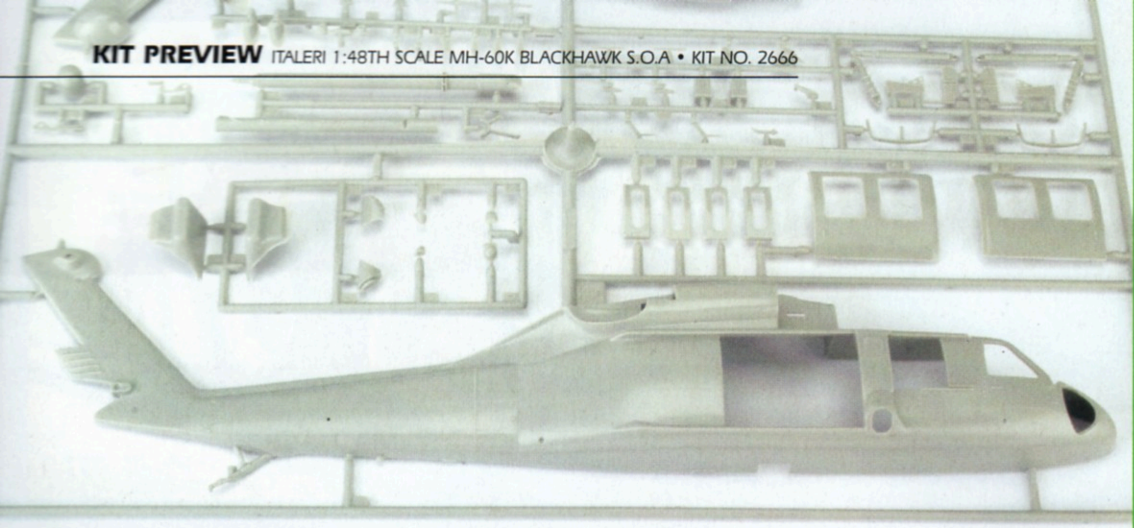
Skybow/AFV Club 1:48 Late Tiger I kit No. 48001

Paints used

Tamiya Red Brown, Flat Red, Flat Black.
Flesh, Buff, Desert Yellow.

Accessories used

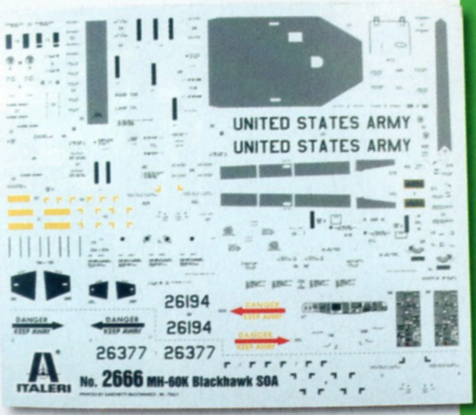
Resin windows - www.ngtrains.com
Static grass, textured plastic cards - www.cbmodels.co.uk
Dartmoor figures from - www.parabellum.co.uk



SPEC OPS TAXI

Ian Ruscoe takes a look at the latest Blackhawk from Italeri - the Special Operations MH-60K.

This new addition to Italeri's Blackhawk family of kits in 1:48 is the Special Operations version, the MH-60K. The box contains four sprues, one in clear and the remainder in light grey injection molded plastic. The parts are superbly moulded with a good amount of surface detail, right down to the thousands of rivets found on this aircraft and are free from flash. A reasonable cockpit and cargo/passenger compartment is represented in the kit, with the cockpit instruments being in decal form. No doubt the superdetail addicts will be able to embellish this area of the kit. Among the options is the ability to have the main side access doors either open or closed, along with the port side cockpit door. Other options are the fitting of external fuel tanks to the ESSS mounts or just the ESSS mount fairings. The main rotors can be built in the stowed position or spread for flight and there's a fairly accurate rendition of this and the tail rotor although no rotorhead cables are present on the kit parts. This is no hardship has they can easily be replicated with fine wire. Two colour schemes options are given, one in overall olive drab or as on the box art, a two tone grey scheme of Light Ghost Grey with Gunship Grey. The decal sheet printed by Zanchetti Buccinasco is quite extensive with what looks like a full set of stencil markings and insignia. All in all, this looks like it will be a cracking kit to build for all you helo buffs out there and the opportunity to do some serious weathering as the actual aircraft out on ops look dusty and worn. No doubt the likes of Eduard, etc., are already planning an update... ■


UNITED STATES ARMY
UNITED STATES ARMY
DANGER KEEP AWAY
26194
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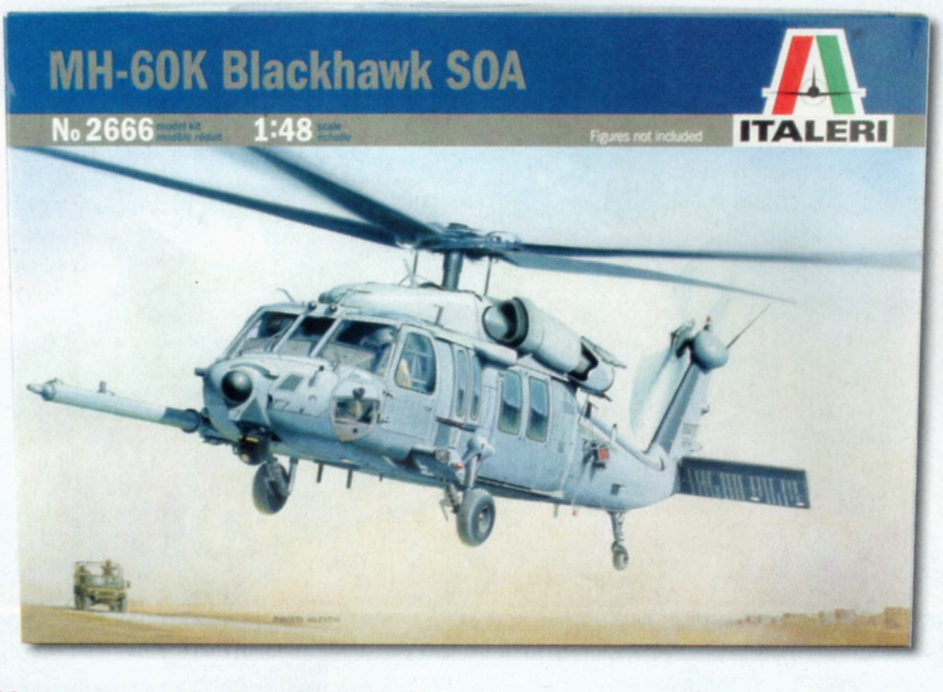
ITALERI
No. 2666 MH-60K Blackhawk SOA


MH-60K Blackhawk SOA
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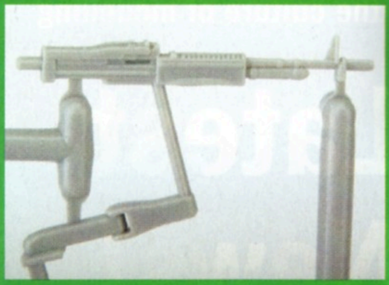
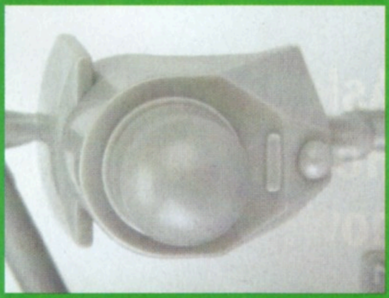
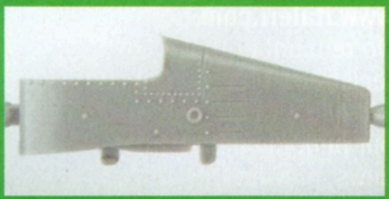
1:48 scale échelle
Figures not included
ITALERI

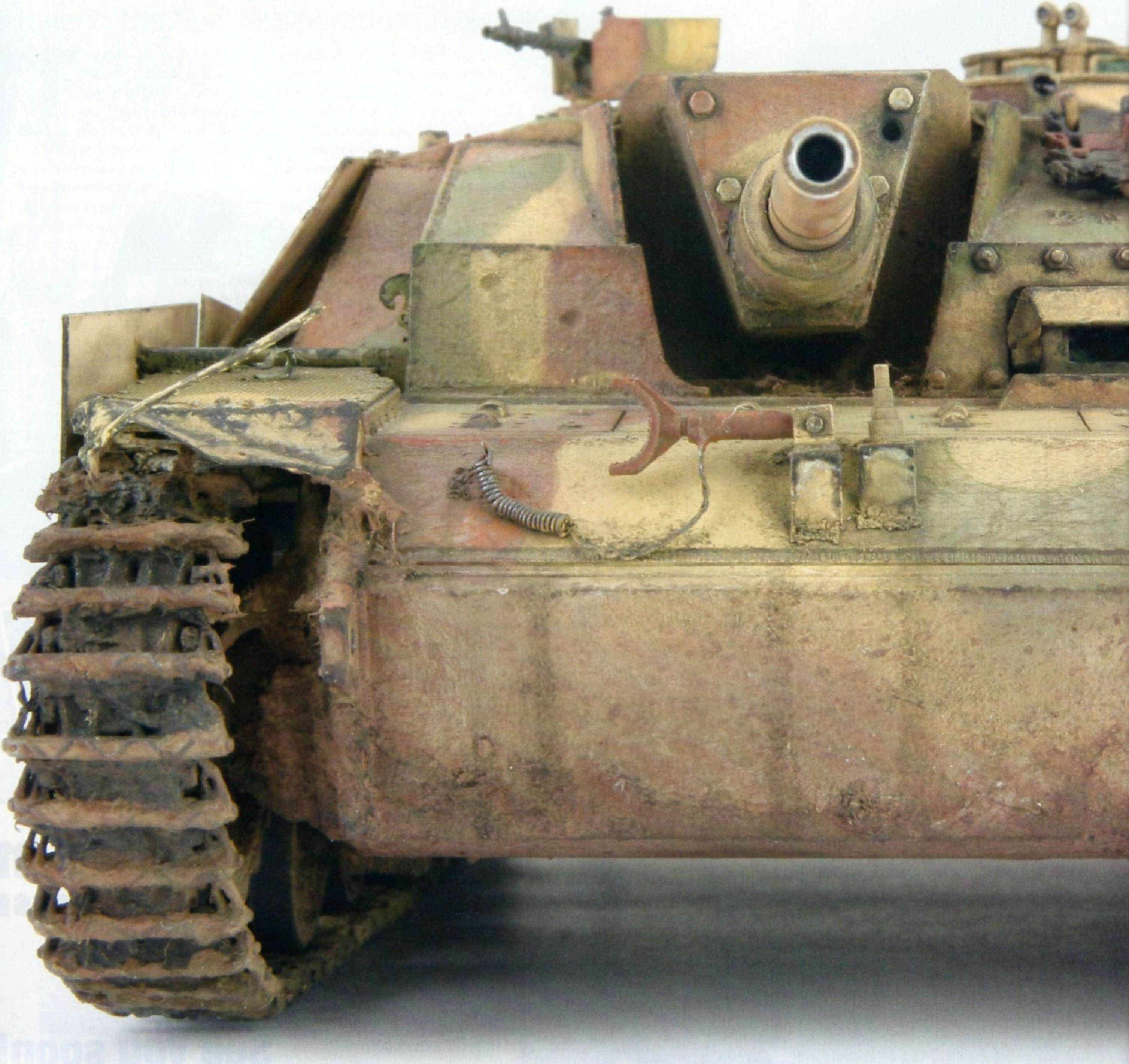






ASSAULT HOWITZER

Kev Smith details Dragon's purposeful looking StuG III armed with the 10.5 howitzer - the StuH 42.



This is essentially the previously released StuG III G kit from Dragon with some goodies thrown in to reproduce the 10.5cm version; these include an etch fret with the schurzen side-skirt hull brackets as well as the full length frame with the triangular bracket, but oddly the schurzen skirts aren't included. The large stowage frame that runs around the rear engine deck is also included along with the gun shield for the remote control MG and the intake grilles. Lastly, Dragon has provided a nice aluminium barrel.

As with all Dragon kits, this one comes with its own spares box as so many parts included are for the Panzer III kit which aren't required. Many of the etch parts are also included in plastic; this allows the builder to use whichever medium that they're happy with and still get a good result. (Send all unwanted etch to me via the Editor many thanks!)

GETTING STARTED

As with all tank kits, construction starts with the lower hull and with it, the first of the alterations that the model underwent. Looking at reference pictures of the 10.5, they appear to show a definite forward lean to the vehicle. To capture this prominent feature, I decided to remove the first and last two road wheel location pins on the hull, then, using superglue, I replaced these with the front two slightly higher and the rear two slightly lower than the moulded kit items. This would give the finished StuG the distinctive forward lean.

I then turned my attention to the road wheels. Rubber rims are always seen with damage of some kind, from the rubber being nicked and gouged to completely missing from the wheel. I used a small file (normally used to work with metal) to distress the rubber on the road wheels. Finally, a scalpel blade was used to remove any excess plastic and to add small nicks to the rubber.

SUPERSTRUCTURE

This area probably provides the most choices with either the original mantlet or the late cast Topfblende (pot mantlet) also known as the Saukopf (Pigs Head) used. Both include the late war machine gun port modification on the StuG. There is a choice of a metal or plastic barrel, the latter is moulded in one piece and doesn't suffer from the normal problem of a seam line. Added to this are a couple of very nicely moulded muzzle brakes, one circular and an oval variant. The only cleaning to be done is the removal of a small seam that runs down the middle of the part. I chose to replace the canvas weather cover provided in the kit, which covers the gap between the superstructure and the mantlet, with one I fabricated from tissue paper soaked in a PVA glue and water solution. The kit weld seams on the superstructure were improved by gluing thin strips of stretched sprue onto the top of the original seams; the reverse side of a scalpel blade was used to indent the characteristic weld detail whilst the sprue was still soft from the glue. To add a little character to the StuG, battle damage was inflicted to the rear of the track guards. The rear portion of the track guards were carefully removed at the natural join line and the frame that supports the underside of the track guard that would be exposed by the missing section was fabricated from plastic rod.

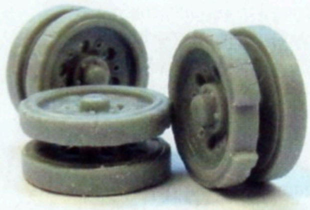
THE CUPOLA

The detail on the cupola is basic with, sadly, no definition on the face of the periscopes. The cupola is a natural focal point and the eye is drawn to this area so the lack of detail cannot be ignored. I remedied this with very thin stretched sprue; a thin coat of Liquid Poly was painted onto the flat face of the periscopes and the pre-cut sprue was attached with a pair of fine tipped tweezers and then left to dry. Any untidy edges were cleaned up using a small file when the plastic was completely dry. As you can imagine this is time consuming and fiddly, but the look of the finished cupola is well worth the effort.

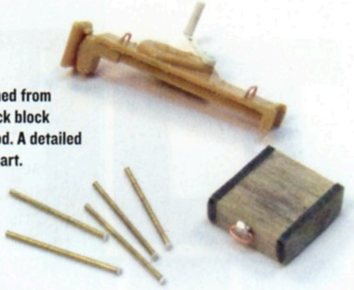
MOVING ON

The back decks are pretty much straight from the box, I did however, decide to improve the barrel cleaning rods which were cut from plastic rod with the brush head cut from a Tamiya part from the spares box. To complete the rear deck and add a little interest, the mount for one of the spare road wheels was fabricated from plastic rod and card.

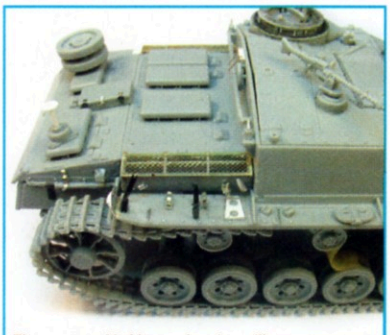
Once happy with the rear decks, my attention moved to the front of the vehicle and this, like the rest of the kit, received a number of scratchbuilt items and details. I started with the track guards and by using the kit parts as a template, new guards were cut from thin metal sheet. Next I fabricated the gun travel-lock spring from thin wire. I found the best technique for forming a convincing spring is to wrap the thin wire around a length of appropriate diameter brass rod then cut to length using a scalpel blade on a hard surface. Finally, a number of bolt heads were added ▶



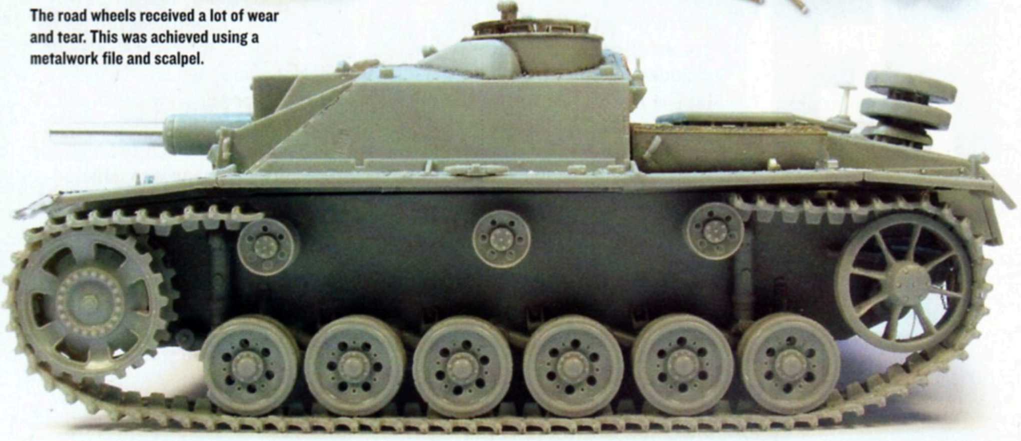
The road wheels received a lot of wear and tear. This was achieved using a metalwork file and scalpel.

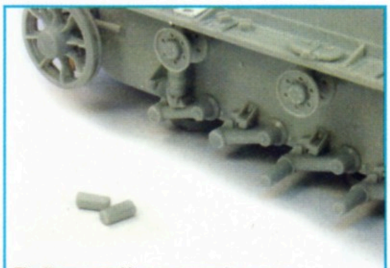


Spare track pins were fashioned from brass rod along with a new jack block made from a piece of real wood. A detailed Tamiya jack replaced the kit part.



The empty tool holders and engine grille screen came from the excellent Aber etched brass detail set available from www.historex-agents.com





The first two and last two mountings were re-positioned to get the characteristic nose heavy stance.

from plastic card using a punch and die set. Happy with the result so far, I started on the last of the improvements. Using the same technique as described for the track guards, the mounts for the travel lock and Notek lamp were fabricated and glued to the hull. Once the gun lock was secured to the new mount, some Aber etched chain was cut to length and glued to the lock.

SCHURZEN FIELD MODIFICATIONS

Whilst researching this build, I couldn't help but notice the different styles of schurzen. Many of the pictures in the excellent book, 'Walk Around Sturmgeschutz' III Ausf.G by Squadron/Signal, show that many of the late war StuGs had abandoned the production design in favour of field modified parts. One picture in particular caught my attention, the lower edges of the skirts had their corners cut at an angle and hung from tubing welded to the hull, which allowed the skirts to swing free; this was to reduce the possibility of the skirts falling off. Extra protection to the sides of the superstructure was provided by placing 'borrowed' Panther side skirts along the sides.

This is a simple conversion, all that needs to be done is to glue lengths of plastic rod to the track guards but I found after trial and error that it's best to drill the small holes for the securing pins before the ends of the tubing are drilled out, this prevented the tube from collapsing. As the next stage would be the skirts, I decided to attach the tubes to the track guards at this point.

A measurement was taken from the centre of the drive sprocket to the rear idler then divided into four. This was transferred onto thin plastic card from which the skirts were cut. After the schurzen were cut out, a hole was then punched into them to correspond with the poles that had been glued to the track guards earlier.

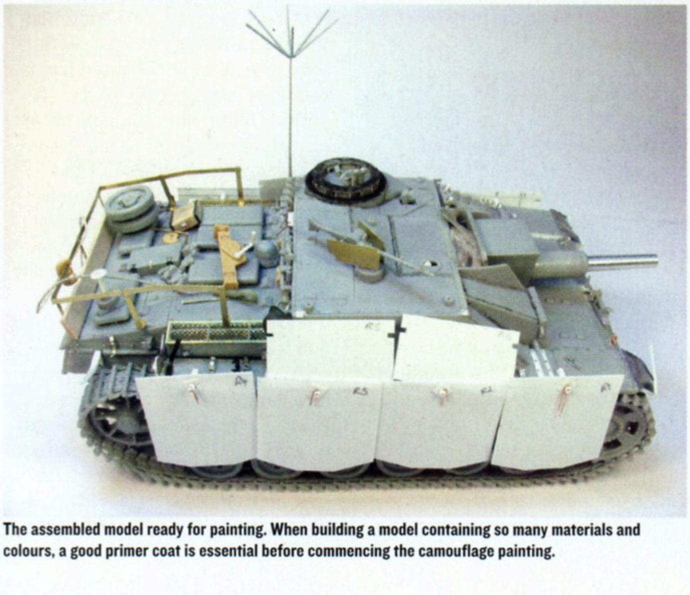
PAINTING

Before priming, the lower hull and the area where the track guard is missing received a mix of filler, fine sand and static grass stippled on with an old paintbrush to represent a thick layer of mud. Once dry the whole model received a coat of primer from the Lifecolor range. This is the first time that I have used this range of paints with each of the colours carrying a RAL number to match the originals. I began with the base coat of RAL 7027 Sandgrau mixed with a small amount acrylic thinner from the same range (5%). I must say the Lifecolor paints sprayed really well and dried to an ultra flat finish.

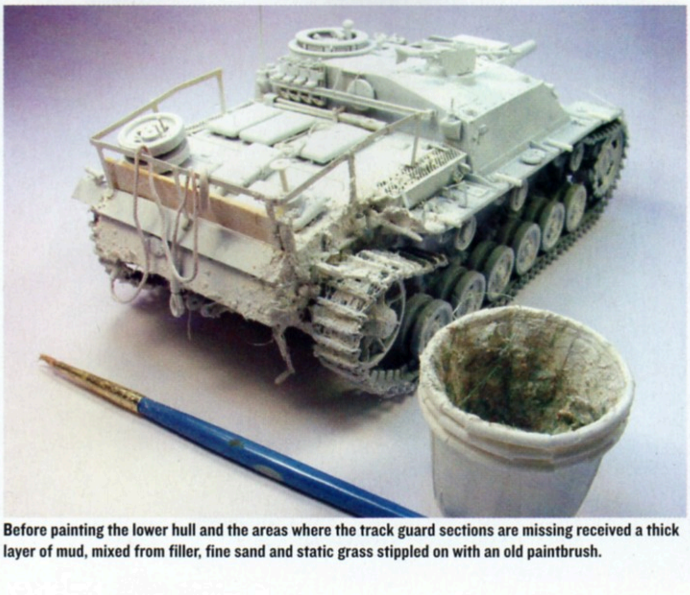
HARD EDGE

As I was going to model a late-war StuH, this required a three tone hard edge pattern (another first). I decided to mask the pattern with White Tac, which was rolled out thinly and then carefully placed onto the model following the camouflage pattern more or less from a scheme in the instructions. Artistic license was used for the pattern on the Schurzen which were, for the ease of painting, attached to a separate backing and painted off the model.

I started with RAL 1817 Schokoladen Braun (Red Brown) mixed with 25% RAL 7028 Dunkelgelb (sand yellow) to lighten the brown a little. This was followed by RAL 6003 Olivegrun (green). The four borrowed Panther Schurzen were painted a different pattern to suggest they originated from a different vehicle.



The assembled model ready for painting. When building a model containing so many materials and colours, a good primer coat is essential before commencing the camouflage painting.



Before painting the lower hull and the areas where the track guard sections are missing received a thick layer of mud, mixed from filler, fine sand and static grass stippled on with an old paintbrush.

WASHES

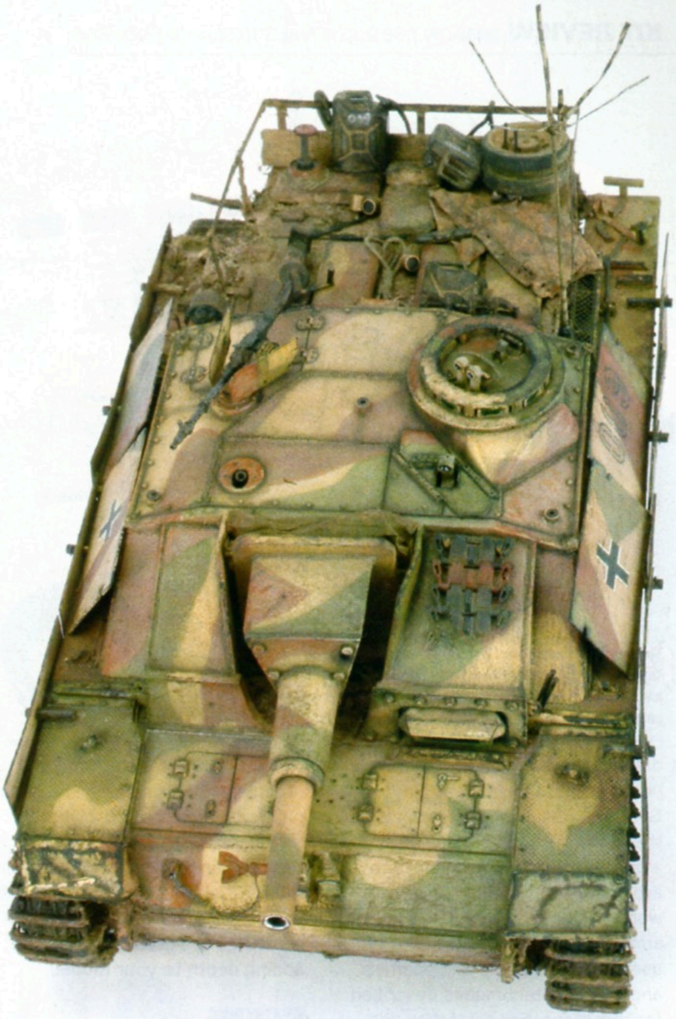
The schurzen were hung on the vehicle before the washes were applied, two of the skirts were swapped around to suggest that the crew had hung them incorrectly after routine track maintenance. I started with a dark wash to tone down the brightness of the colours; I used 502 Abteilung (Abt090) Industrial Earth oil paint and a relatively small flat brush for the application of the wash.

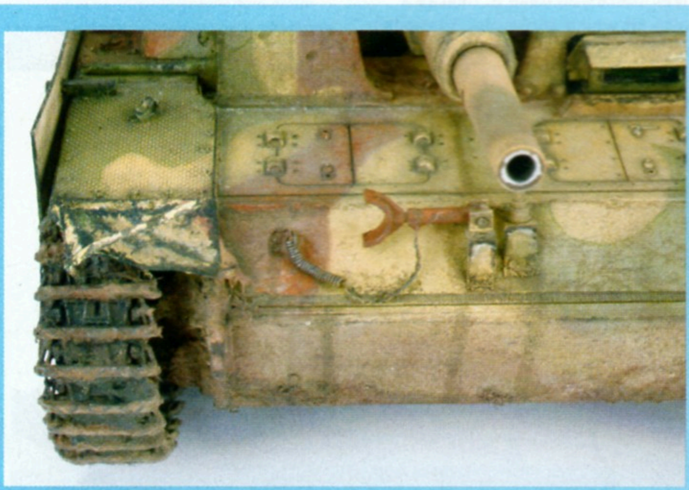
FILTER TIME!

I generally use Humbrol colours, Mid Stone (84), Sand (63), Dark Earth (29), as the base colours but I do use similar shades from this range to mix with these as I go along, which adds subtle tonal changes. I place a small drop of paint taken from the bottom of the tin onto a pallet and from there I mix the paints to my taste with thinners. The thinned mixture (almost transparent) is then painted onto a small area of the vehicle using a second brush. I tend to use the darker filters on the areas of the model that would be naturally in the shadow or collect more dirt, and the lighter filters on the large flat areas. It is important to work in small sections and not take on areas that are too big. If you aren't satisfied with the results, the filter can be carefully removed. Remember less is more! You can always layer the filters to alter the intensity using several layers rather than one heavy coat. It's a time consuming process that can be accelerated with a hair dryer, but the results are worth it.

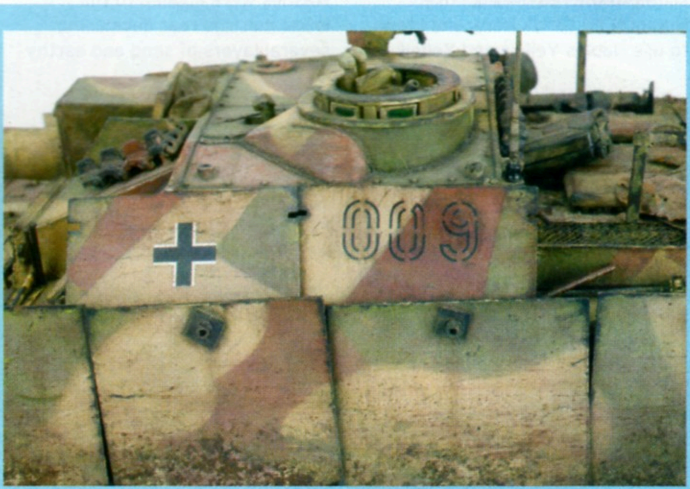
SCRATCHES AND CHIPS

After the completion of the filters, I began the chipping process. Here I used a mixture of Paynes Grey and Raw Umber oils for the deep scratches and highlighted around the lower edges with the respective colour. It is important that the scratches don't look uniform or all run in the same direction as this does not happen in real life. Take a look the next time you're behind an HGV on the road. An 00 brush was used for the application of the lighter superficial scratches and scuffs. The edges are then blended in with a second brush dampened with thinner this helps to soften the contrast between the newer layers of scratches and the base colours. The other technique I use is to ►

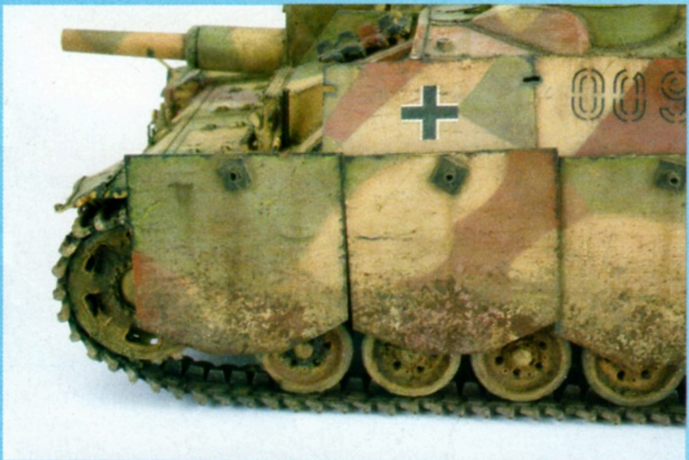




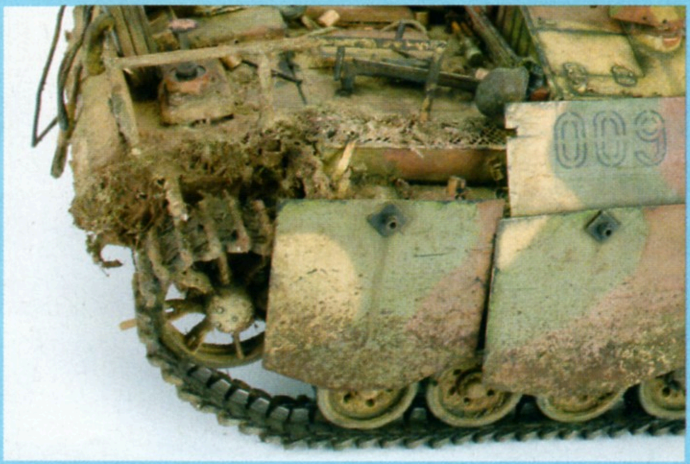
The gun travel-lock spring was made by wrapping some fine wire around a length of brass rod.



Some StuGs supplemented their armour when possible, in this case surplus Panther side skirts have been used.



To replicate the mud splattered side skirts Maskol was stippled on using a piece of Scotchbrite followed by a layer of Mig Productions Dark Earth pigments. This process was repeated until the desired effect was achieved.



To simulate the different layers of mud which have been flicked up from the tracks, the author has used various tones of brown to simulate both wet and dry mud. Note the realistic metallic sheen on the guide teeth of the tracks.

AUTHENTIC ACRYLIC COLORS
UA 201 RAL 8020 Gelbbraun
UA 202 RAL 7027 Sandgrau
UA 203 RAL 8000 Grünbraun Gelbbraun
UA 204 RAL 7028 Dunkelgelb
UA 205 RAL 8017 Rotbraun Schokoladen Braun
UA 206 RAL 6003 Olivgrün
CAMOUFLAGE SET
LIFECOLOR
GERMAN WWII TANKS SET 1

The author used the new Lifecolor German WWII Tanks set No.I distributed by the Airbrush Company and available from www.cammett.co.uk. These acrylic paints spray beautifully and dry to an ultra flat finish.

dab a small piece of Scotchbrite (kitchen scourer) into the Paynes Grey and Raw Umber paint mix, then after removing the excess on a paper towel, lightly dab it onto areas of wear on the vehicle. This works well and leaves a mass of small, random scratches. I tend to use a mixture of oils and enamels and both the techniques described for this stage. For scratches and scuffs to the red brown, I used Humbrol 70 (Brick Red), and I tend to use Naples Yellow and Yellow Green oil paint for the sand and green areas respectively. I thin the paints to keep the brushwork as fine as possible, and accompany this with artist pencils. After drying, the filter stage can be repeated. In this way, a layer of dust and then scratches are gradually built up adding depth to your model.

WEATHERING

Washes were applied to the lower hull and rear deck using several layers of sand and earthy coloured pigments to capture the many layers of drying mud built up around the rear idler. Several mixtures of increasingly lighter earth tones were applied and left to dry, finally a layer of darker pigments (PO33) Dark Earth was added to represent fresh mud. The areas around the tool clamps, weld seams etc., got an extra dark pin wash using a mix of Paynes Grey, Burnt Umber plus a touch of black.

Oil stains on the decks were produced with a mix of Paynes Grey, Burnt Umber, gloss coat, and thinner. The tracks received a coat of Tamiya Red Brown (XF-64) and a couple of drops of German Grey (XF-63) finished off with local washes of Raw Umber and Paynes Grey.

SCHURZEN

A layer of Humbrol Maskol dabbed onto the skirts with Scotchbrite was followed by a layer of Mig Productions Dark Earth, then left to dry. The mask was then removed with fine tipped tweezers. This was repeated a couple times until the desired effect was achieved.

CONCLUSION

Well there you have it, overall a nice kit which allows you to model an accurate StuG III G with plenty of combinations seen on the late war models and with etched metal an added bonus. I must say I really enjoyed making the StuH from the small conversion to the new painting technique. Dragon have produced an outstanding kit not only for the more experienced modeller but also for the beginner. Happy modelling! ■

Modelspec

DRAGON 1:35 StuG III Ausf.G 10.5cm kit No. 9058

Paints used

Paints;
Lifecolor German WWII tank set 1
Oils;
502 Abteilung (Abt 090) Industrial Earth, Paynes Grey, Raw Umber, Naples Yellow, Yellow Green
Humbrol;
84 Mid Stone, 63 Sand, 29 Dark Earth, 70 Brick Red
Tamiya;
XF-63 Red Brown, XF-64 German Grey
Pigments;
P033 Dark Earth, P028 Europe Dust

References used

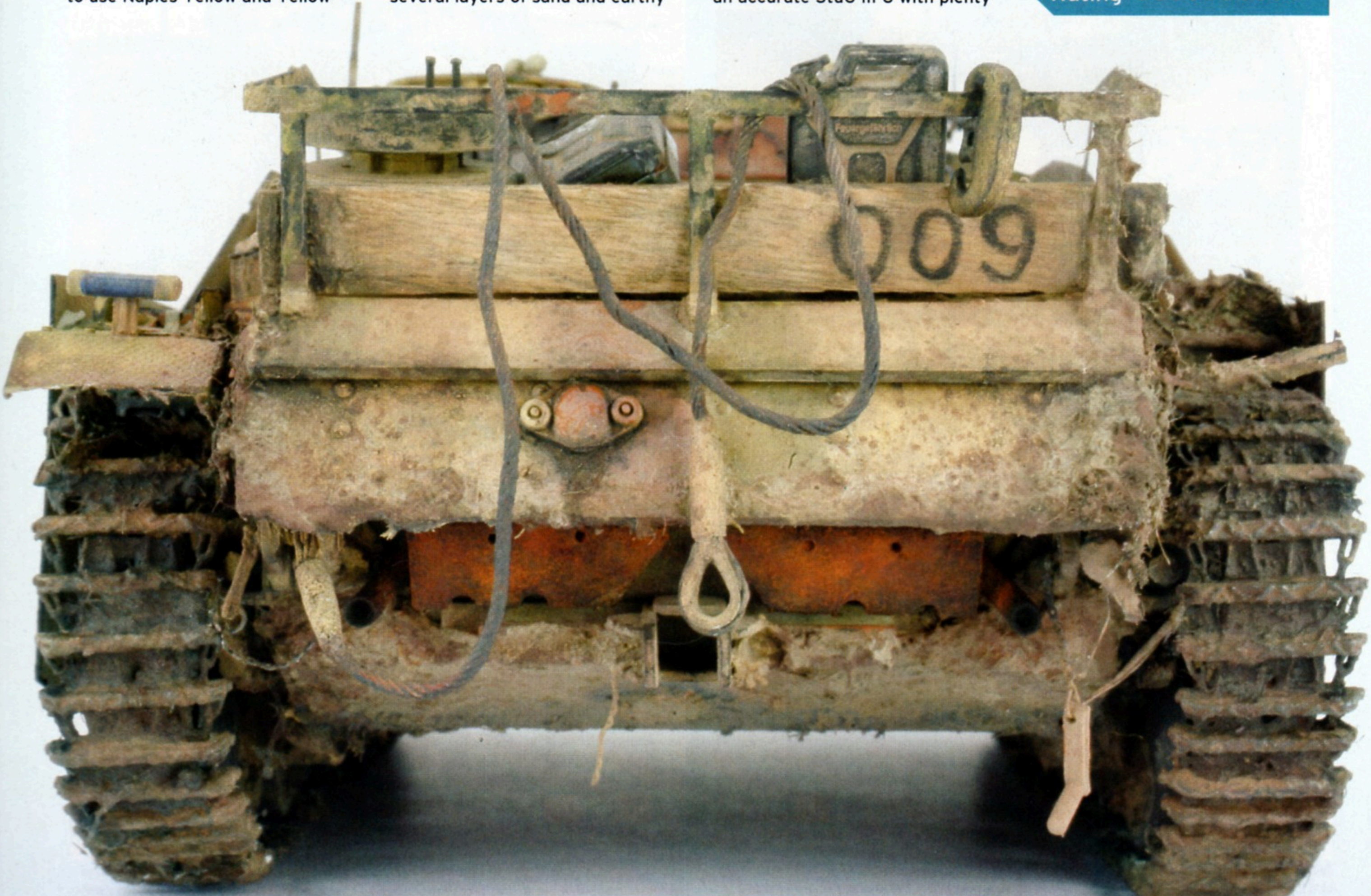
WALK AROUND Sturmgeschutz III Ausf.G by Squadron/Signal Publications

☑ etched brass and aluminium barrel included
☒ ejector pin marks in track, cupola lacks detail

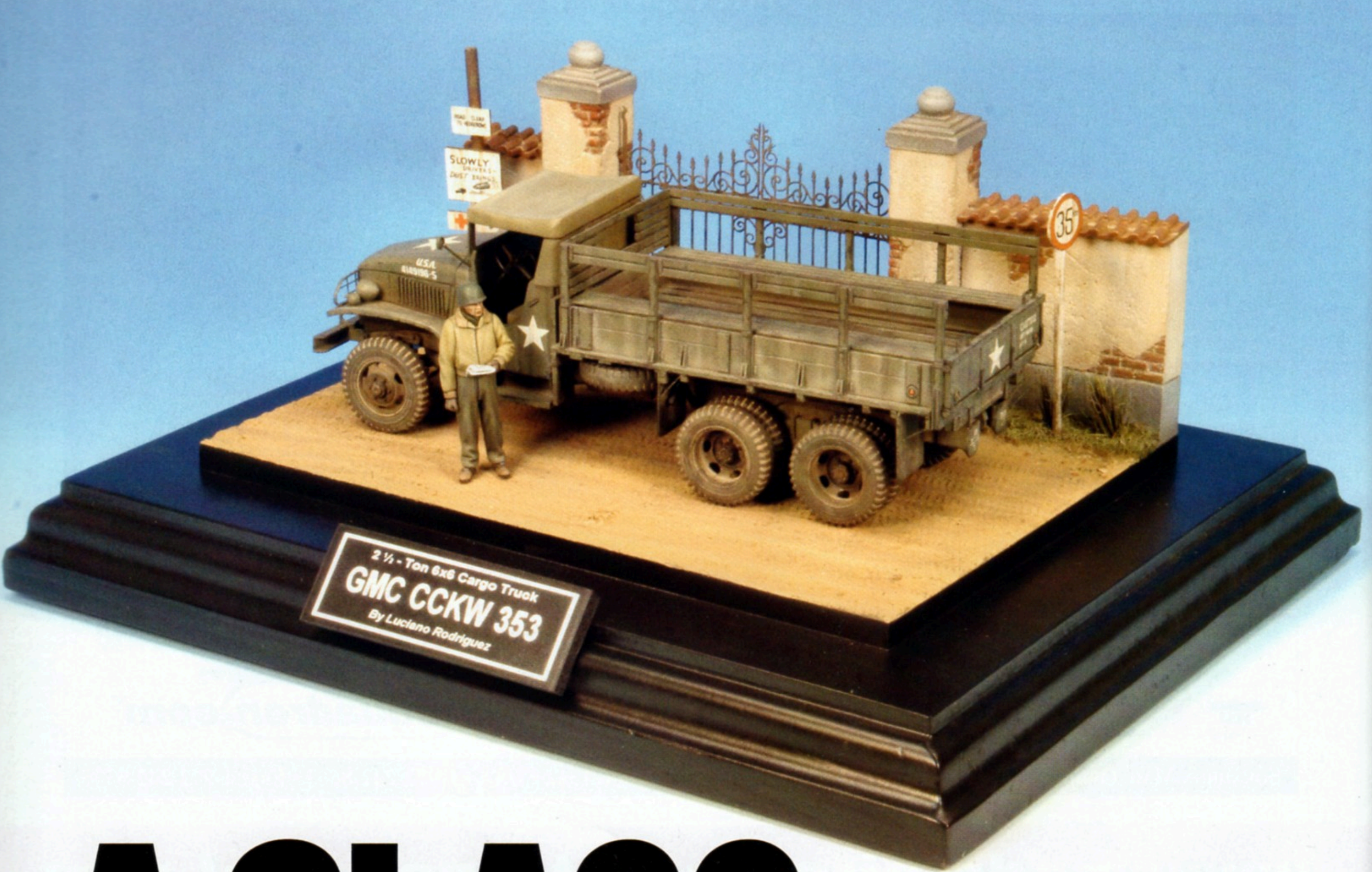
Available from

All good model shops.

Rating ●●●●●●●●○○



Karaya soft copper wire available from Accurate Armour has been used for the towing cable draped over the stowage rack.


2 ½ - Ton 6x6 Cargo Truck
GMC CCKW 353
By Luciano Rodriguez
SLOWLY
35

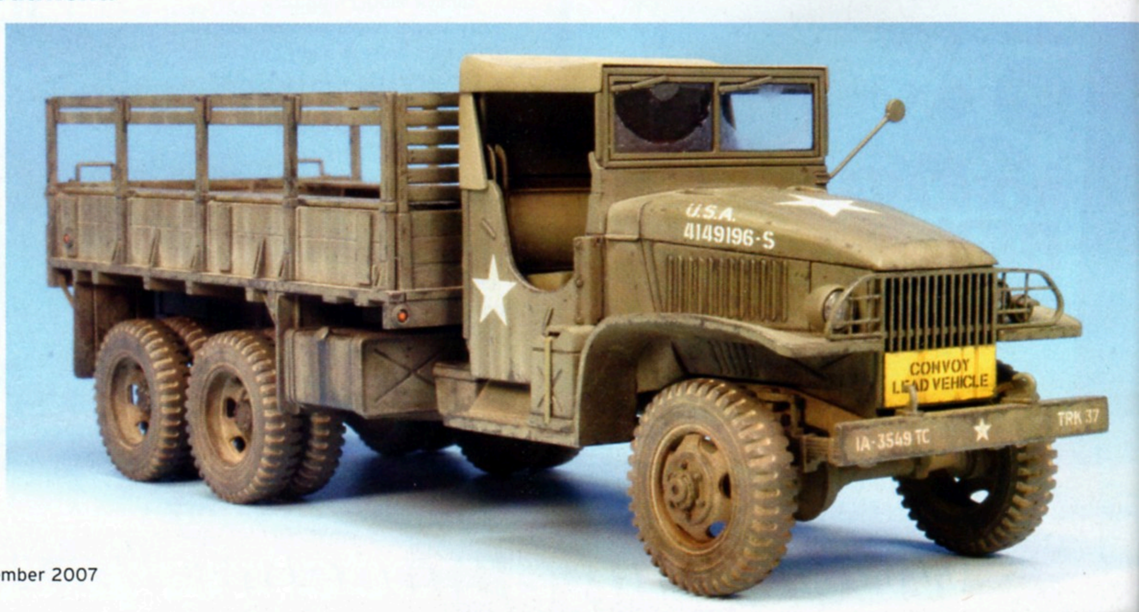
A CLASS DEUCE AND A HALF

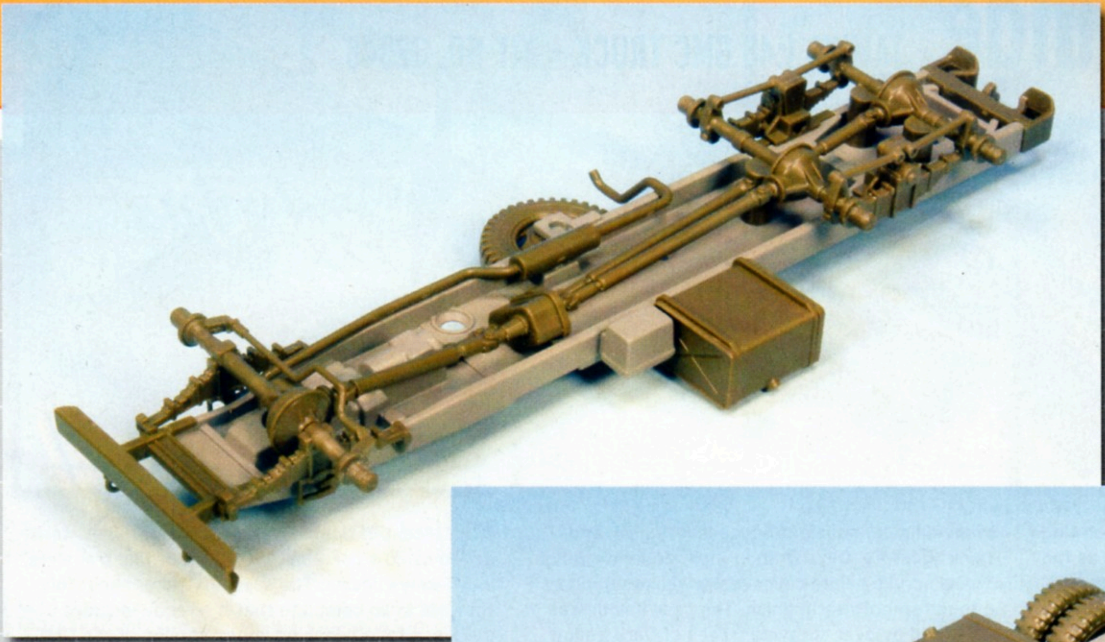
Luciano Rodriguez offers another of his excellent step by step guides - this time it's Tamiya's lovely little GMC 2 1/2 ton truck that receives the treatment.

TAMIYA
1/48
U.S. 2½-TON 6X6 CARGO TRUCK

Tamiya are really keeping me busy at the moment with a steady stream of 1:48 scale military vehicles. I have really enjoyed the varied selection of kits Tamiya have been producing of late, from the KV-1 to the VW Beetle, all have been enjoyable builds as has my latest, the good old 'Jimmy'.

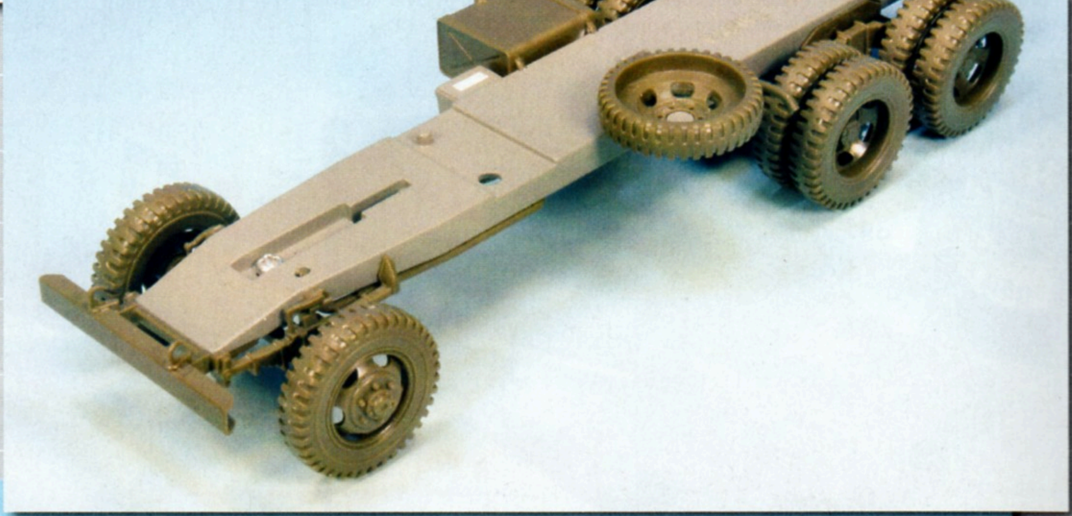
David Doyle has provided photos of the real vehicle along with background information to compliment this article, so I will spend no more time talking about one of the pieces of equipment that was so instrumental in winning the war for the Allies and will get stuck into the model instead... ■

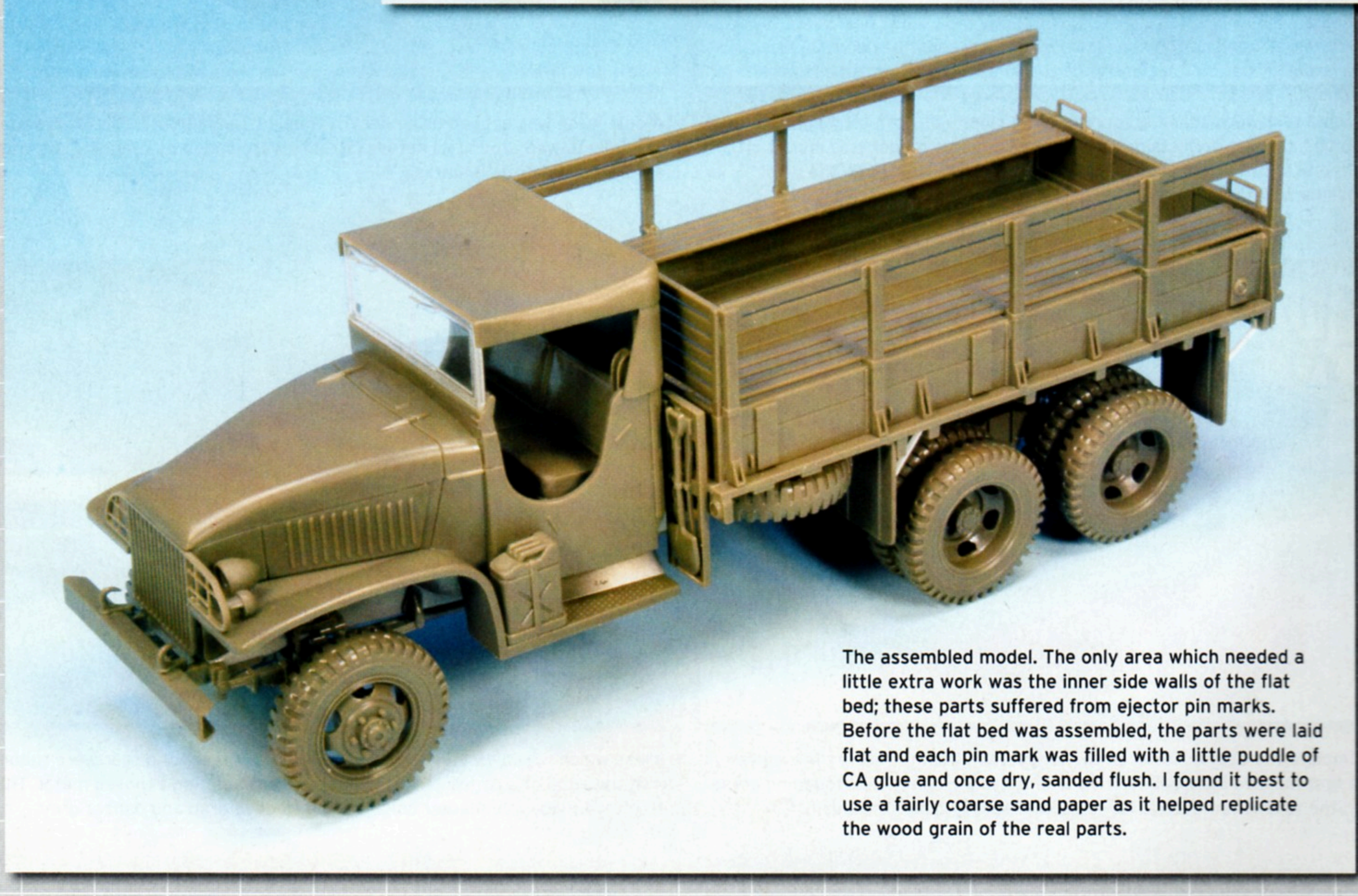

U.S.A.
4149196-S
CONVOY
LEAD VEHICLE
1A-3549 TC
TRK 37



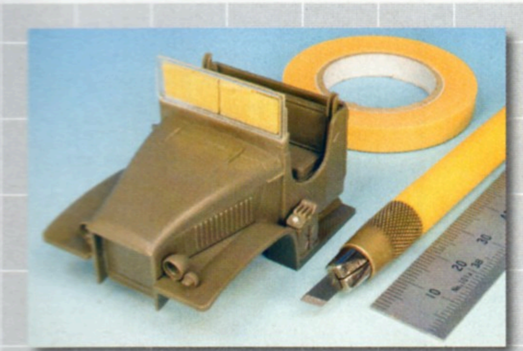
Starting with the characteristic die-cast chassis, which does look rather basic when you first get the part out of the box, but once assembly begins starts to look nice and 'busy' with plenty of detail.

Complete lower hull includes front and rear bumpers, fuel tank and spare wheel. The cab assembly and cargo bed will be attached with the aid of a couple more screws, which will be completely hidden once the parts are in place.

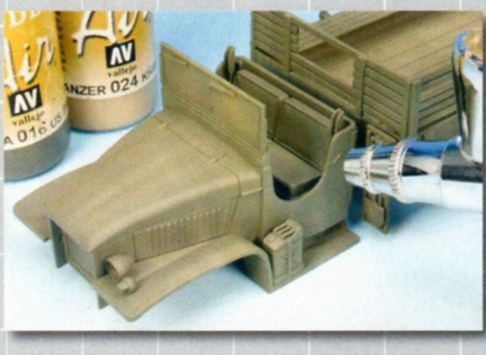




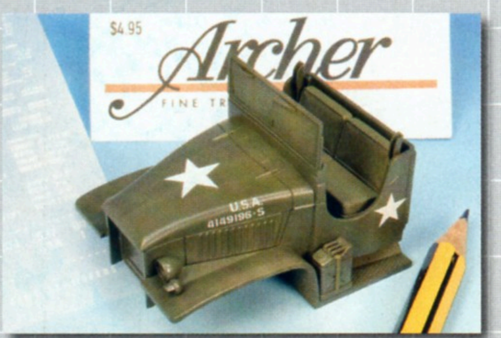
The assembled model. The only area which needed a little extra work was the inner side walls of the flat bed; these parts suffered from ejector pin marks. Before the flat bed was assembled, the parts were laid flat and each pin mark was filled with a little puddle of CA glue and once dry, sanded flush. I found it best to use a fairly coarse sand paper as it helped replicate the wood grain of the real parts.



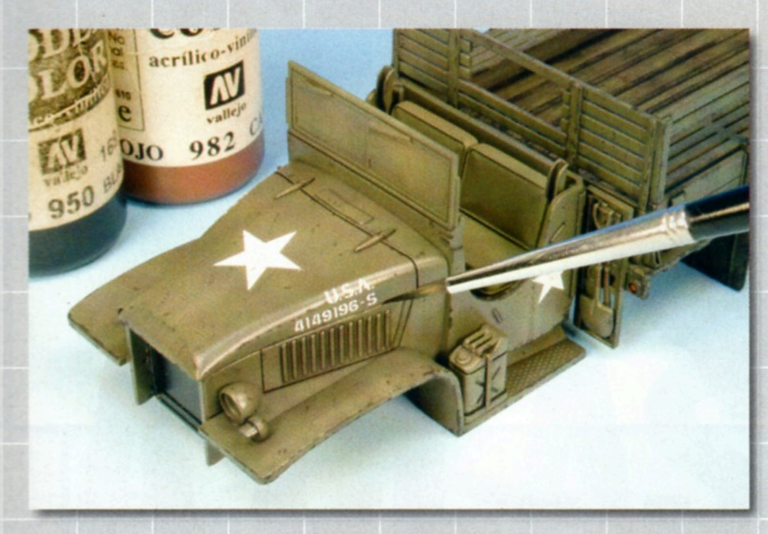
The windshield must be protected before painting by using a good quality masking tape, such as the excellent one from Tamiya. Make sure that both sides are covered and the edges rubbed down properly to avoid the paint bleeding under the edge of the tape and ruining the windscreen glazing.



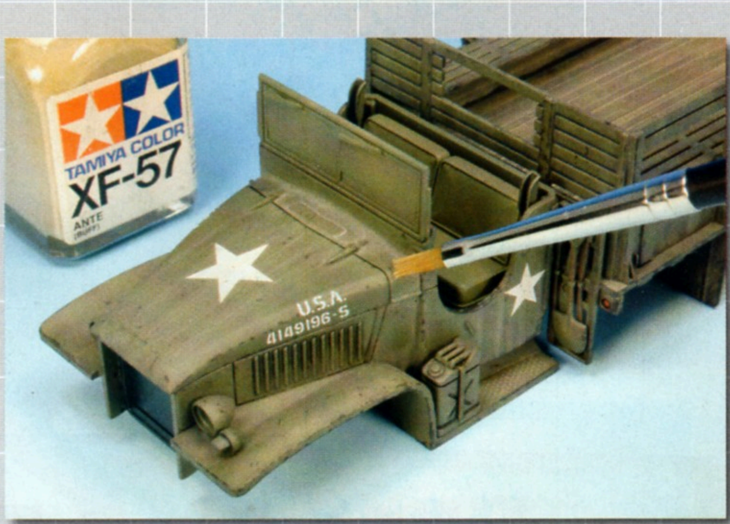
In my opinion, Vallejo produce a very nice, and I think accurate, Olive Drab in their Model Air range. These acrylic paints cover really well resulting in a tough smooth satin finish. The base colour was lightened by over spraying traces of Dark Yellow onto the base OD.



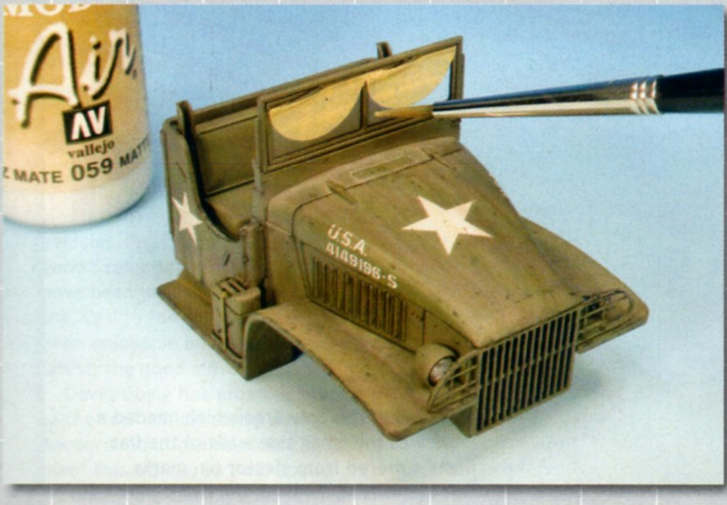
After a coat of Johnsons Klear, the markings were added using a combination of Archer fine transfers and Tamiya decals. The specific Archer sheet for the GMC is so complete that it already includes markings for a winch equipped version of the GMC, maybe foreseeing that one will be available on the market soon?



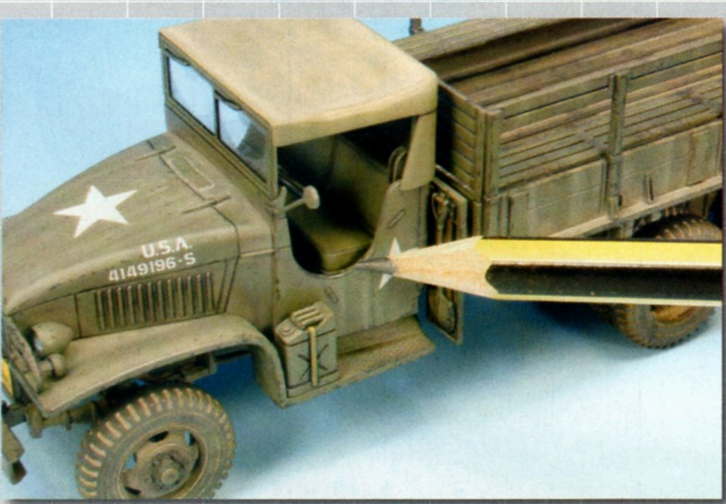
Wear and tear were added in four steps: (1) chips, (2) worn off paint, (3) small scratches, (4) tiny dark stains all over the complete model. It is important that the first two effects look realistic and are only applied on the most exposed areas; the other two can be painted more randomly.



A dust wash was applied using heavily thinned Tamiya Buff. This wash was carefully flowed around all details. Streaks were added by dragging the wash down to simulate rain marks.



To simulate the dust build-up on the windscreen the arcs left by the wipers were first masked off, then matt varnish is brushed on the surrounding areas. When the tape is removed it reveals a realistically dirty windshield.



Areas which would receive the highest amount of wear and tear were rubbed with the edge of a pencil, which is perfect for simulating exposed metal. This effect works best on darker colours such as olive drab and panzer grey.

I admit I am not fan of what I would call 'random' techniques, such as dabbing paint on with a sponge, but as the cargo-bed usually suffers heavily from abusive treatment, I decided to add heavy chipping using a sponge on this occasion because it is perfect for adding hundreds of tiny random scratches and chips, which would take forever trying to paint them all by brush.

MIG productions
PIGMENTS
color for modelling
20ml

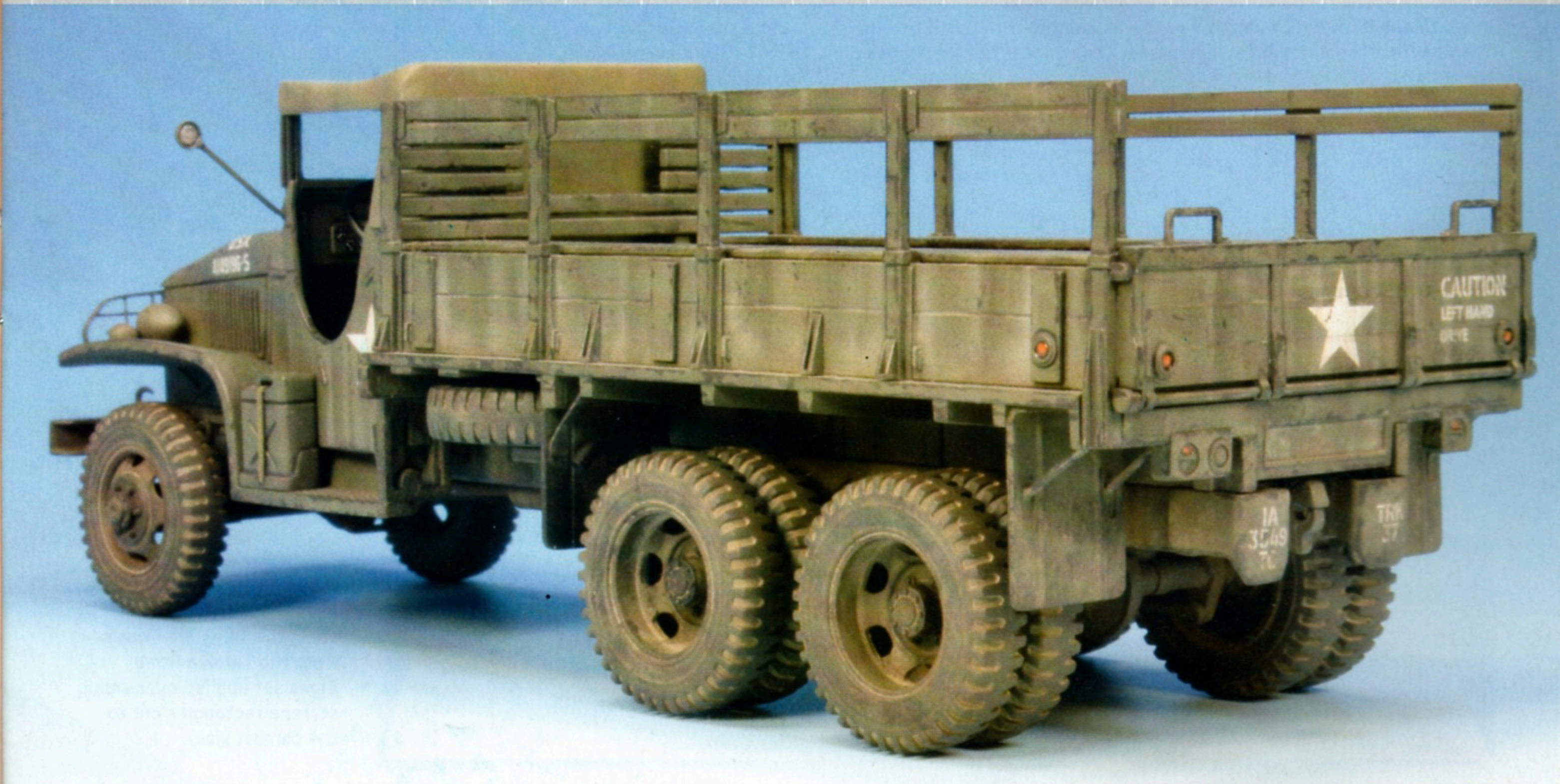
Mig Productions Dry Mud pigment is applied to the cargo bed using a soft brush. The excess is then carefully removed by brushing the pigment in different directions until all that remains is a build-up in the more inaccessible areas, around raised detail and in recessed lines, etc.

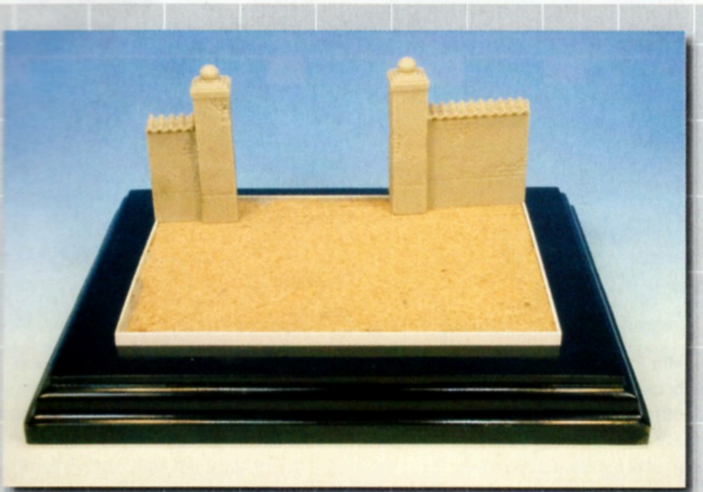
TAMIYA COLOR
X-19
HUMO
TAMIYA COLOR
XF-1
フラットブラック

The spilled fuel down the side of the gas tank was produced by first painting with Tamiya Black XF-1 followed by a second covering with Tamiya Smoke X-19. By adding the Smoke it gives the impression that the spill is still wet. Note some subtle stains have also been added to the chassis frames.

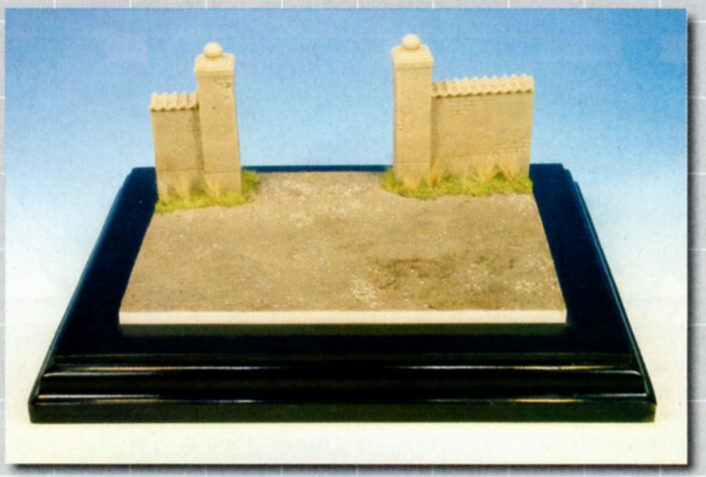
TAMIYA COLOR
XF-1
フラットブラック

More wet stains and spills were added to some other areas like the cargo bed floor, particularly on surfaces previously treated with pigments. The effect that the diluted paints leave, once dry, is truly amazing. Various colours can be used to simulate different liquids which have spilt but remember the more the paint is thinned, the further it will flow over the surface.

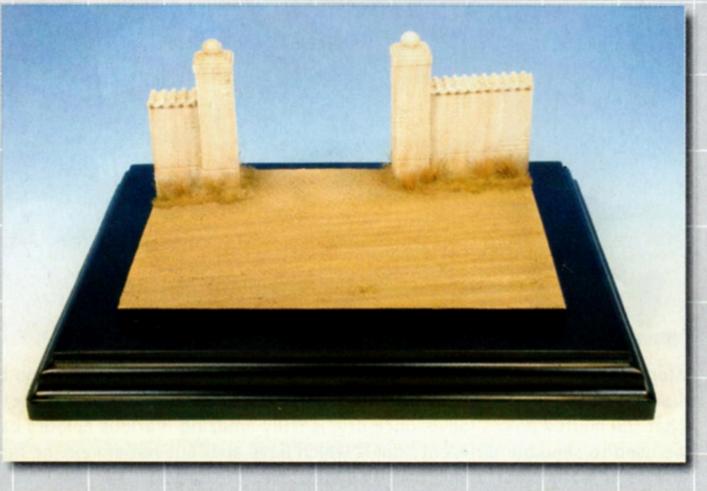

CAUTION
LEFT HAND
DRIVE



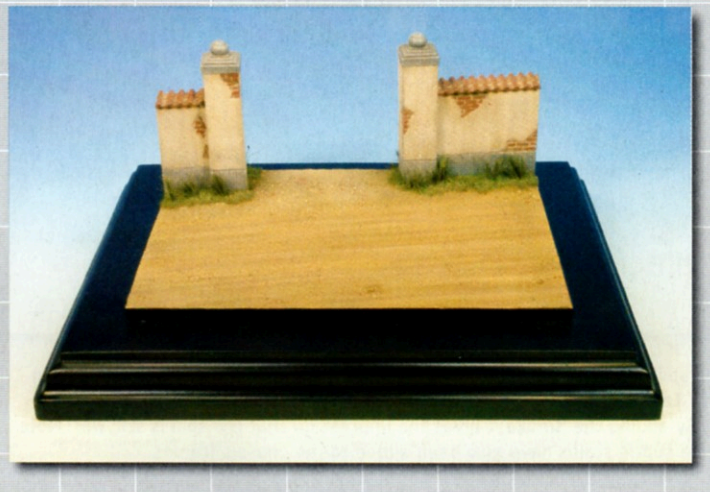
The groundwork was built up from a piece of cork which was fixed to a rectangular wooden base. Verlinden Park Wall sections formed the back drop, the wall section had to be re-worked slightly as it was battle damaged in its original form.



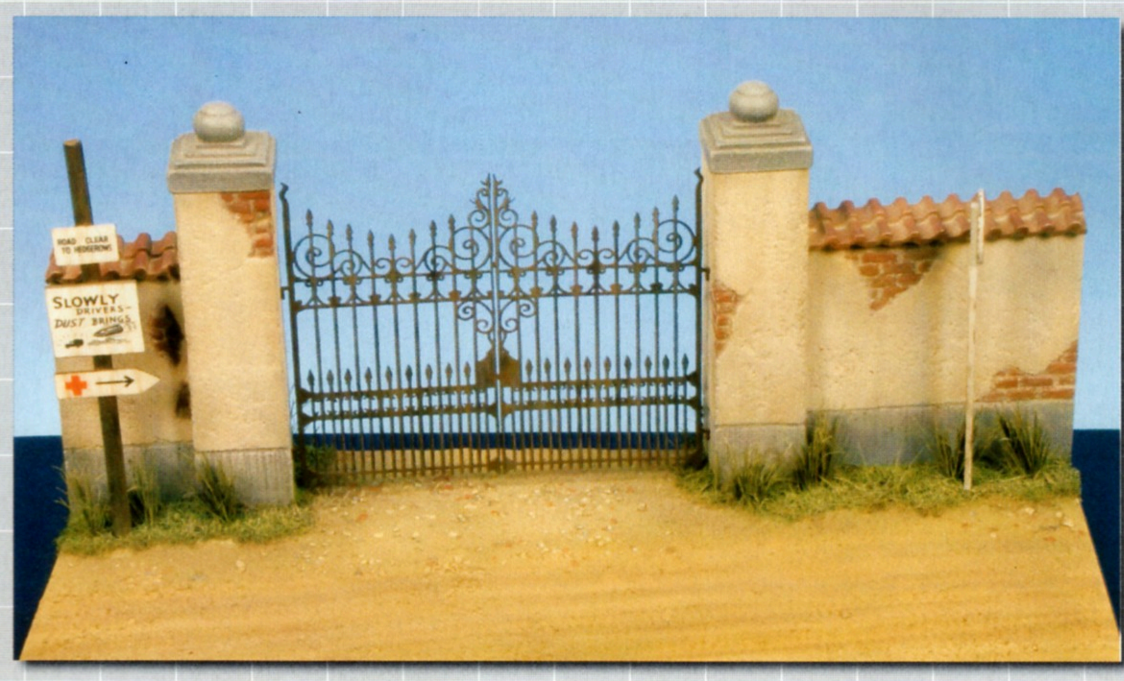
Small stones and fine sand were added to the areas of the roadway while the epoxy putty was still wet. This is followed by rolling one of the spare tyres backwards and forwards to add a sense of heavy traffic.
Static grass and some paint brush bristles have also been added along the verge with the aid of CA glue.



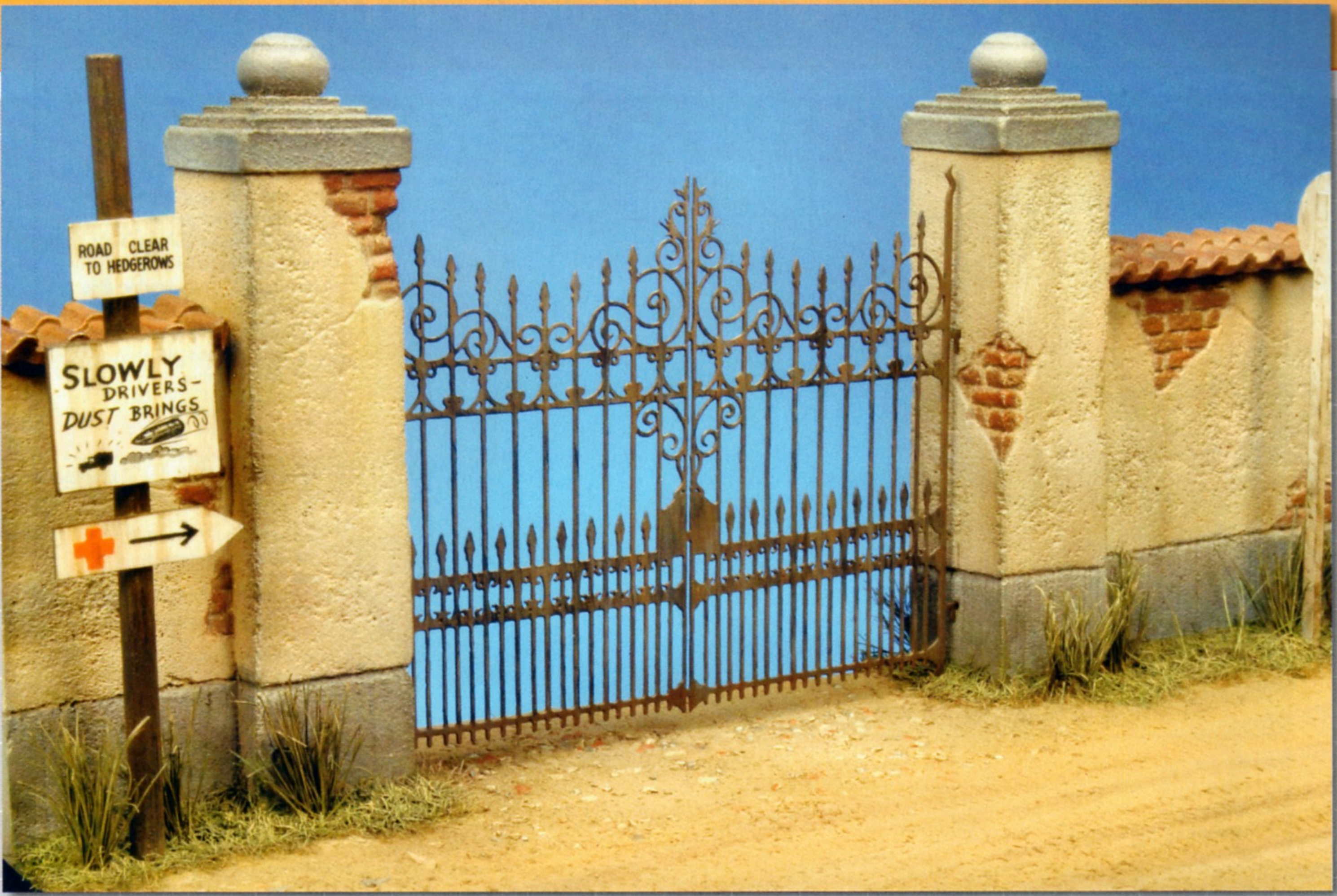
The entire scene is coated with Tamiya acrylics. Walls are coloured in White and Dark Yellow and the road was painted with Earth Brown. Traffic effect is painted by adding parallel fine lines in lighter shades on the brown.

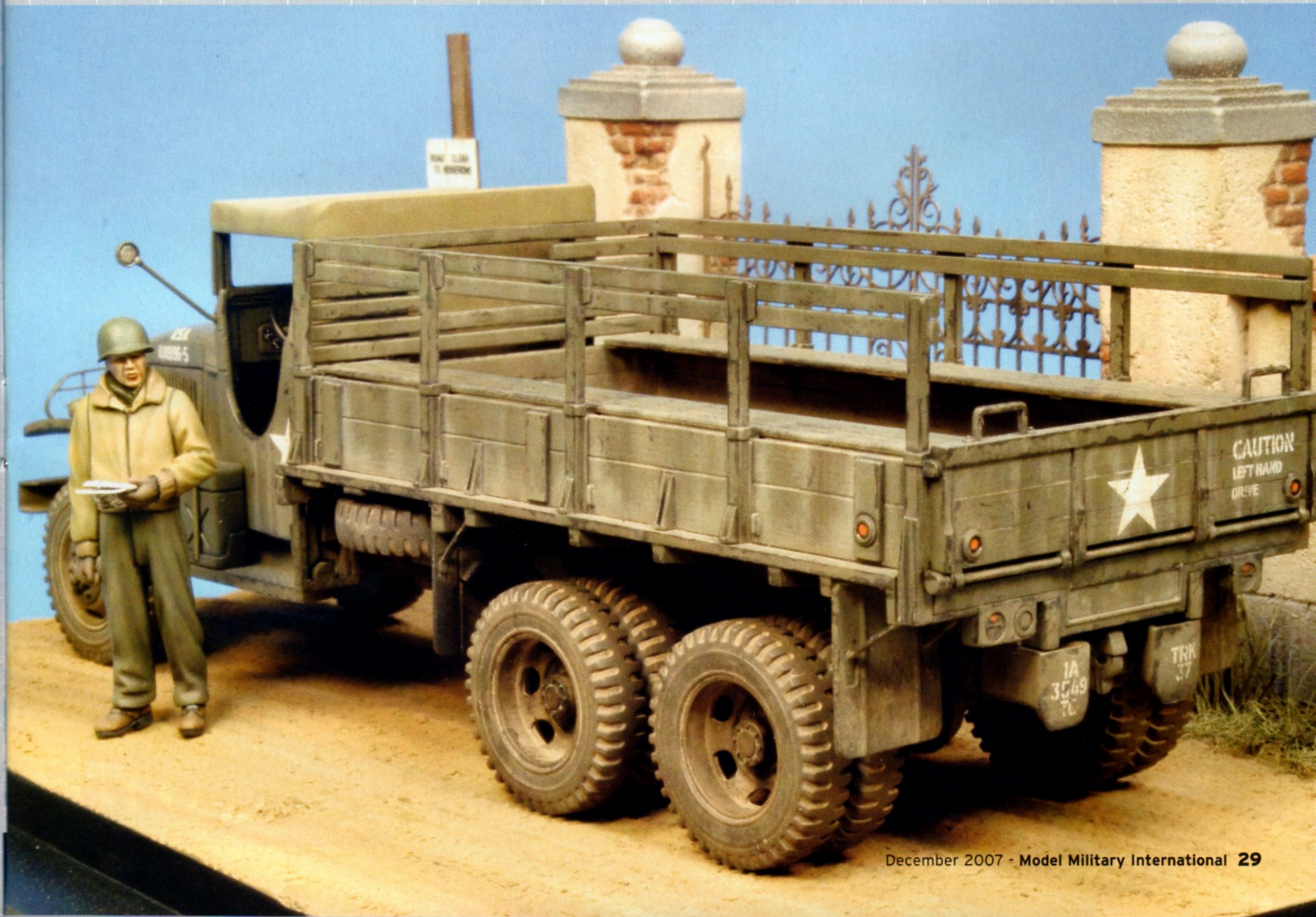


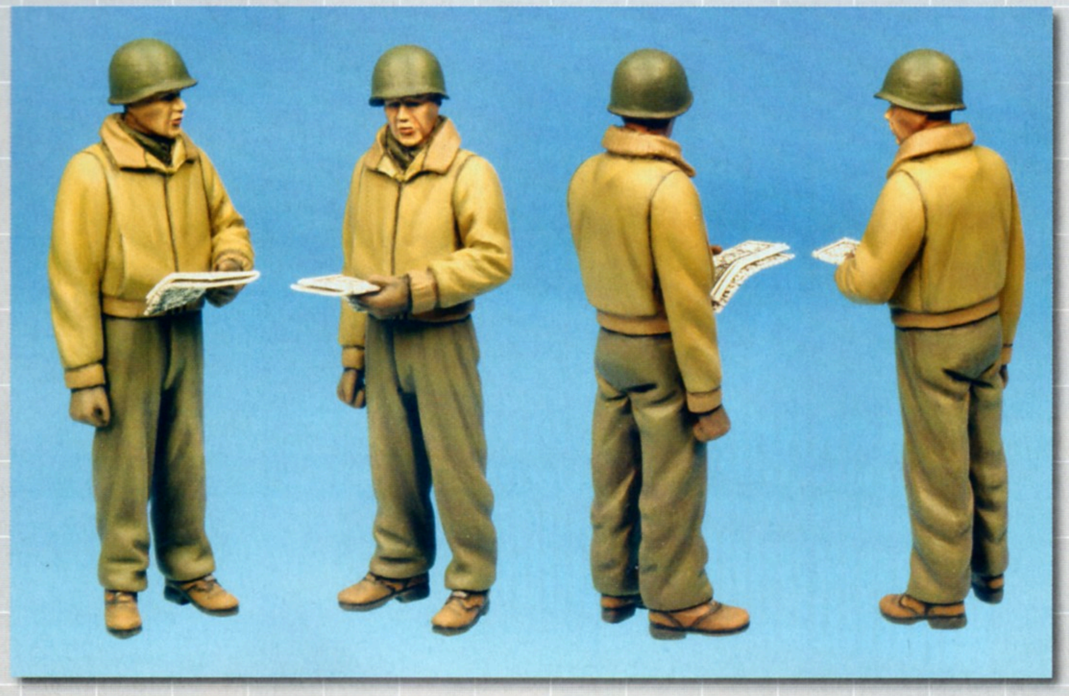
All other details have now been brush painted in their respective colours and shades using Vallejo acrylics. Many of the small stones embedded in the road have been picked out in light greys and beige to help add some contrast to the roadway.



The gate is a made from photo-etched copper and is included in the Verlinden wall set. It was primed in dark brown and finished in position with small touches of light grey, orange and black. The wooden post has been made from a small stick, the signs are decals from the Tamiya Road Signs set applied over small styrene rectangles cut to the correct size.


ROAD CLEAR TO HEDGEROWS
SLOWLY DRIVERS- DUST BRINGS


ROAD CLEAR TO HEDGEROWS
CAUTION
LEFT HAND
DRIVE
1A
3549
7C
TRK
37



The figure is from one of Verlinden's US Tank Crewmen sets; his initial pose and personal gear did not match what I wanted, so with a little surgery I modified him according to the picture I had in my mind. I replaced his head with one from my spares box fitted with a Tamiya helmet. I sculpted a new jacket from the shoulders down and made a new right arm from epoxy putty.

CONCLUSION

Once again, Tamiya knows how to produce a kit that will be a very popular subject in the soft-skin range. It can be built straight from the box or used as the basis for conversions. The 'Jimmy' also has the added value of crossover potential which will satisfy armour and aviation fans alike. Well done Tamiya. ■

Modelspec

Tamiya 2 1/2 ton 6x6 truck	Kit No.32548

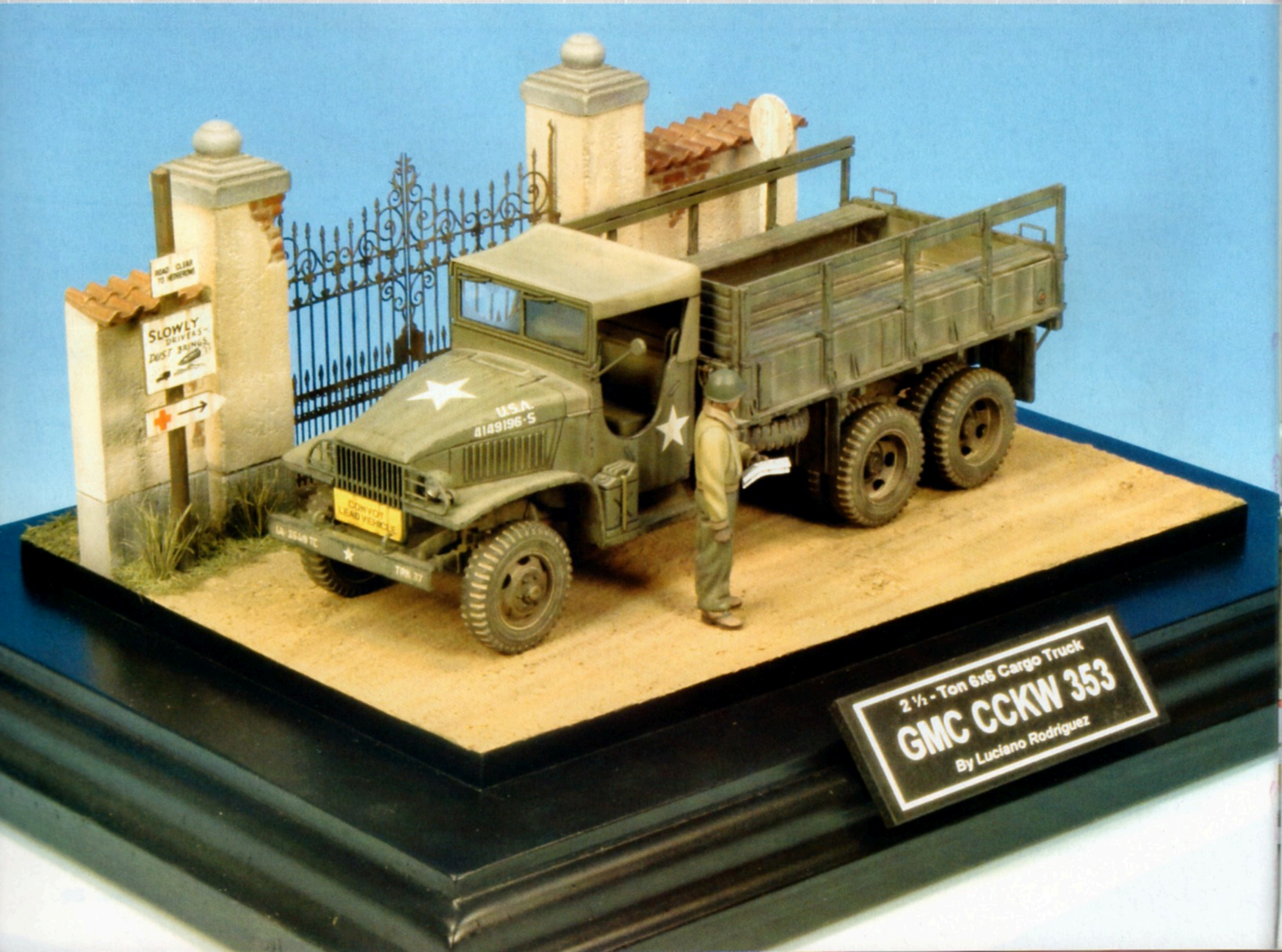
Paints used

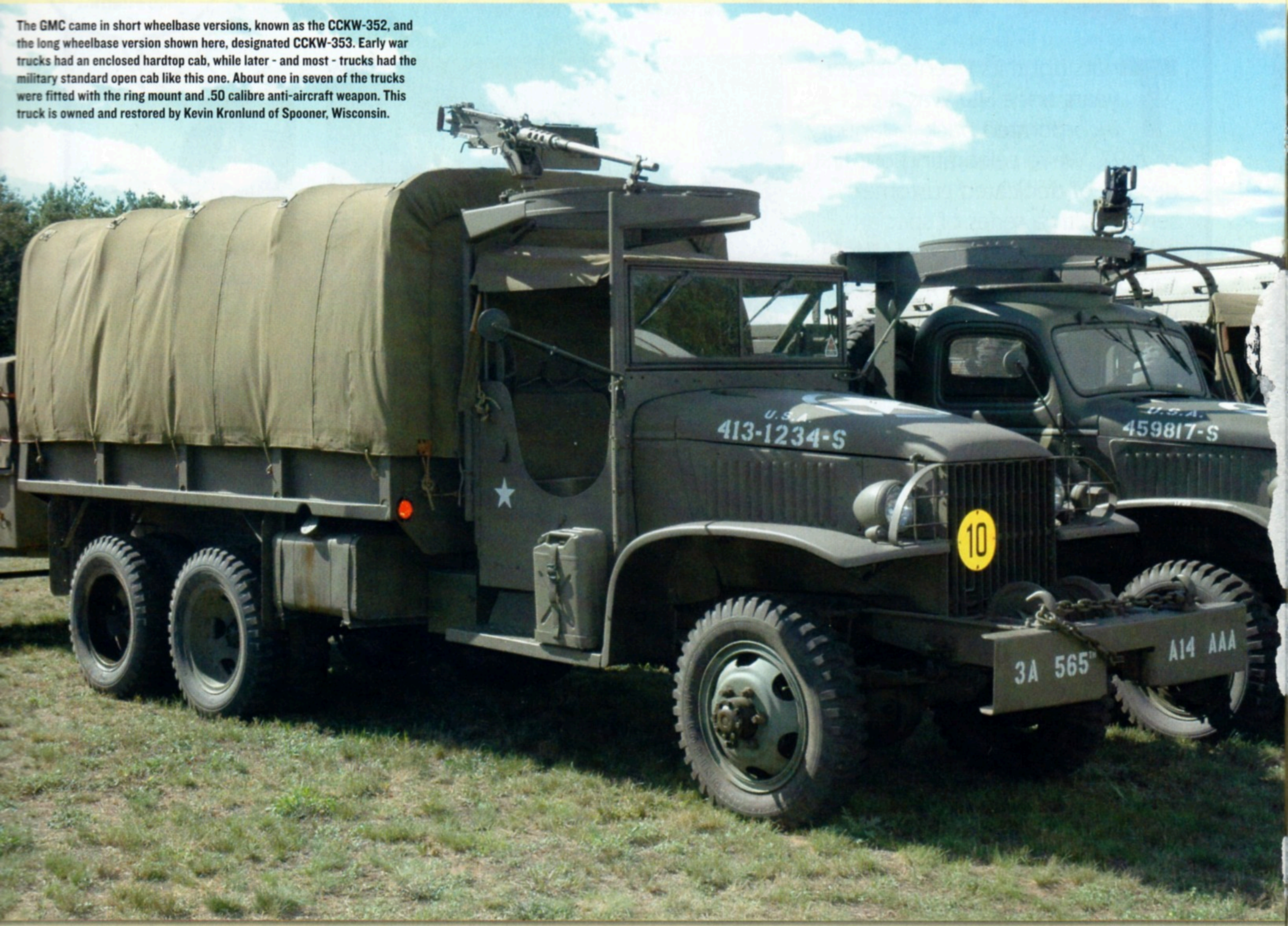
Tamiya Matt Black XF-2, Smoke XF-19
Vallejo Olive Drab, Dark Yellow

✓ Excellent parts fit and ease of construction
✗ Clear moulded windshield lacks detail

Available from

All good model shops.


SLOWLY DRIVERS - DUST BRINGS
U.S.A.
4149196-S
CONVOY LEAD VEHICLE
2 ½ - Ton 6x6 Cargo Truck
GMC CCKW 353
By Luciano Rodriguez



The GMC came in short wheelbase versions, known as the CCKW-352, and the long wheelbase version shown here, designated CCKW-353. Early war trucks had an enclosed hardtop cab, while later - and most - trucks had the military standard open cab like this one. About one in seven of the trucks were fitted with the ring mount and .50 calibre anti-aircraft weapon. This truck is owned and restored by Kevin Kronlund of Spooner, Wisconsin.

THE GMC CCKW 2 1/2 TON 6X6 TRUCK

David Doyle offers some full size reference to complement Luciano's superb 1:48 model.

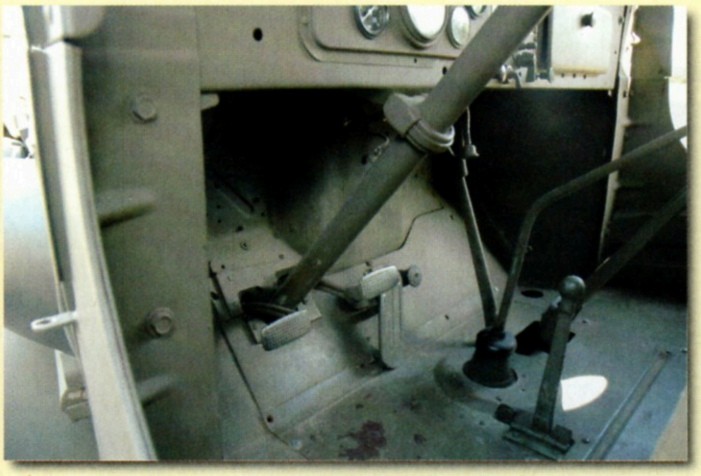
The CCKW - sometimes called a 'Jimmy' - is generally considered to be the truck that won WWII, if for no other reason than a half-million plus were produced! It was a medium-duty all-wheel-drive truck produced by General Motors. The CCKW was had a rated load capacity of 2 1/2 tons cross-country, or five-tons on-road. An almost identical truck lacking the front wheel drive was also produced and was designated CCW, and because it was intended only for on-road use it was given a five-ton load rating. The first C indicates a 1941 design, the second C reflects its conventional cab design, the K is the GM indicator for selective front-wheel drive, and W designates two powered rear axles.

The trucks were built in both long (164-inch) and short (145-inch) wheelbase versions. The short wheelbase version was the GMC model CCKW-352, and the long wheelbase truck was known as the CCKW-353. The CCKW-353 was intended as a general-purpose cargo truck and personnel transport, while the CCKW-352 was built as a prime mover for the Field Artillery, towing 75mm and 105mm weapons. Production was begun initially at the Yellow Truck and Coach plant in Pontiac, Michigan, but in September 1942, another production line was set up in the St. Louis, Missouri, Chevrolet Assembly Plant. In mid-1943 a corporate restructuring caused Yellow Truck and Coach to become General Motors Truck and Coach Division, with an associated change in the data plates.

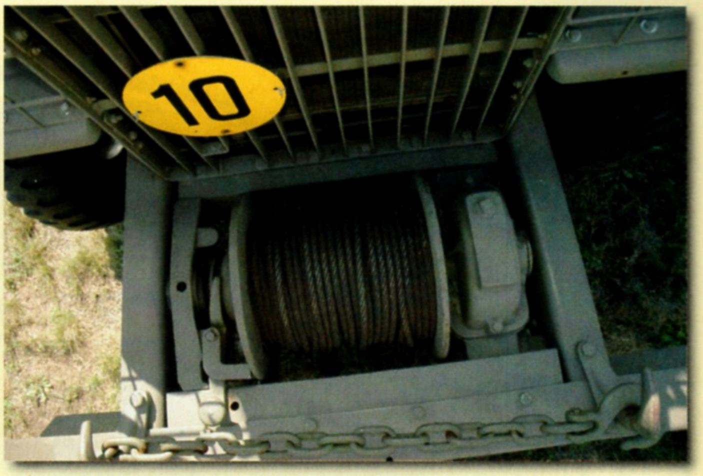
Some of the trucks were built with winches. The cargo beds were initially steel, but in August/September 1942 the trucks began using wooden beds, and finally in January 1944 a body of composite steel and wood construction began to be used. The earliest models had fully enclosed cabs, but during 1942 the US military standard open cab began to be used instead.

The earliest trucks all used axles built by Timken which had a split differential design. As production levels increased, Timken was unable to supply enough axles, and GMC was authorized to begin using axles of their own design in addition to the Timken units. These GM-designed axles are known alternately as 'Corporation' or 'banjo' axles - the later name being derived from the shape of the axle housing.

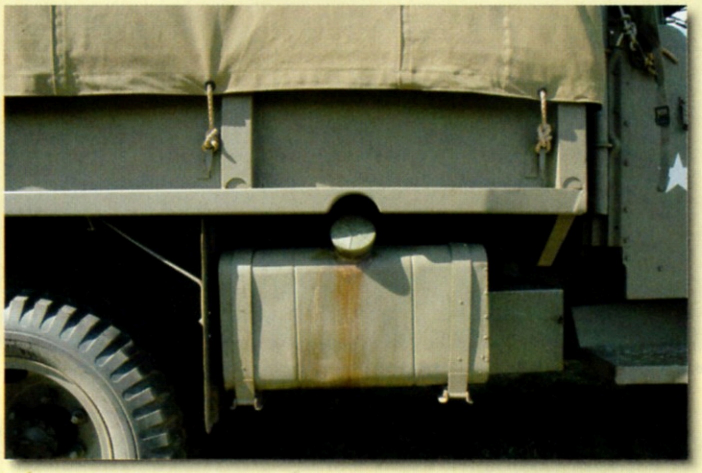
The CCKW was fitted with a greater array of body types than any other WWII-era vehicles. In addition to cargo trucks, the CCKW was produced with dump, water and fuel tanker, airfield refueler, air compressor, bomb service and a host of repair shop bodies - and even this list is not complete. ■



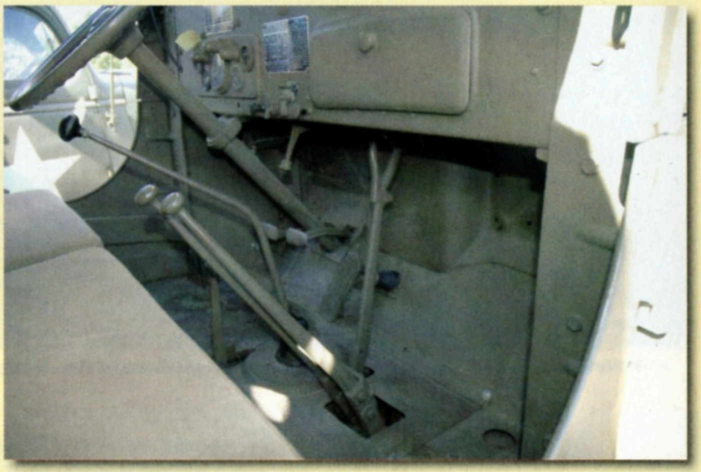
Visible here are the controls mounted on the left floorboard. The lever nearest the camera operates the power take off and is only found on winch-equipped trucks. Next is the transmission shift lever, followed by the parking brake and lastly the transfer case control lever.



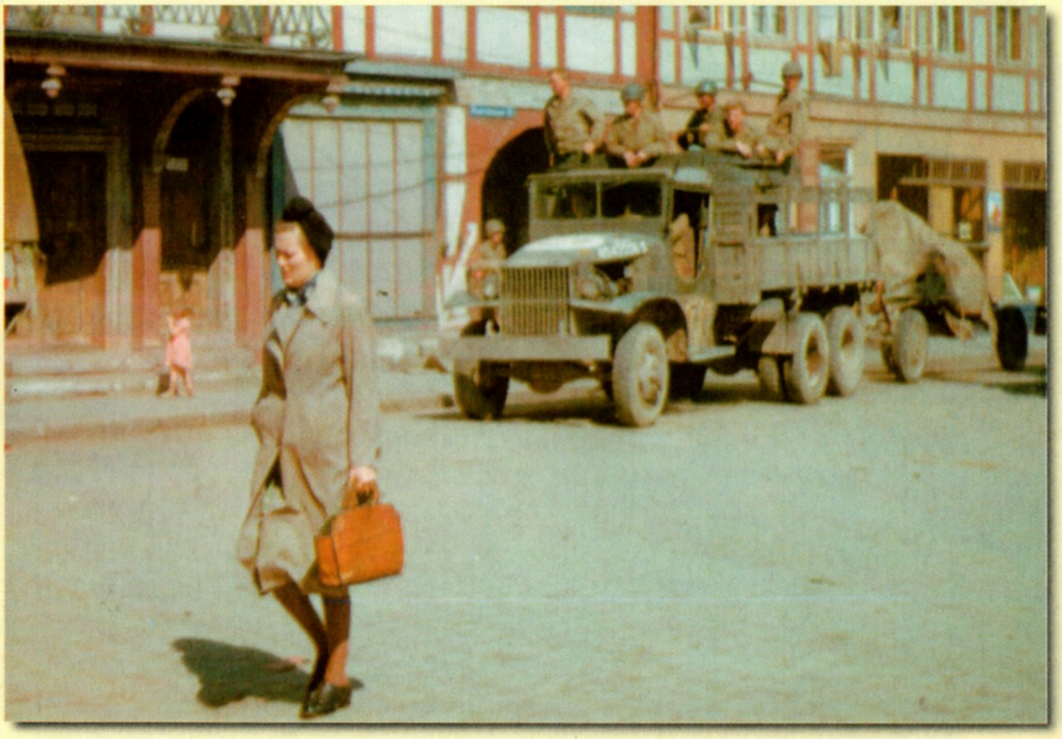
Some of the trucks were equipped with power take off driven front winches. The wire rope on the drum was kept lubricated, and thus tended to collect dirt. For safety reasons the rope was not allowed to rust. Note the yellow bridge weight classification plate did not have the moveable numbers prevalent on trucks fielded ten years later.



Just forward of the fuel tank can be seen the battery box. Three types of beds were used on the CCKW cargo trucks - steel, wood, and what is referred to as composite bodies - the later made of both wood and steel. The semi-circular cutouts and the base of the bow pockets visible here are a common postwar modification, as are the tie-downs for the tarpaulin. The wartime tie-downs were formed from heavy gauge steel rod rather than formed sheet metal tie downs seen in this photo.

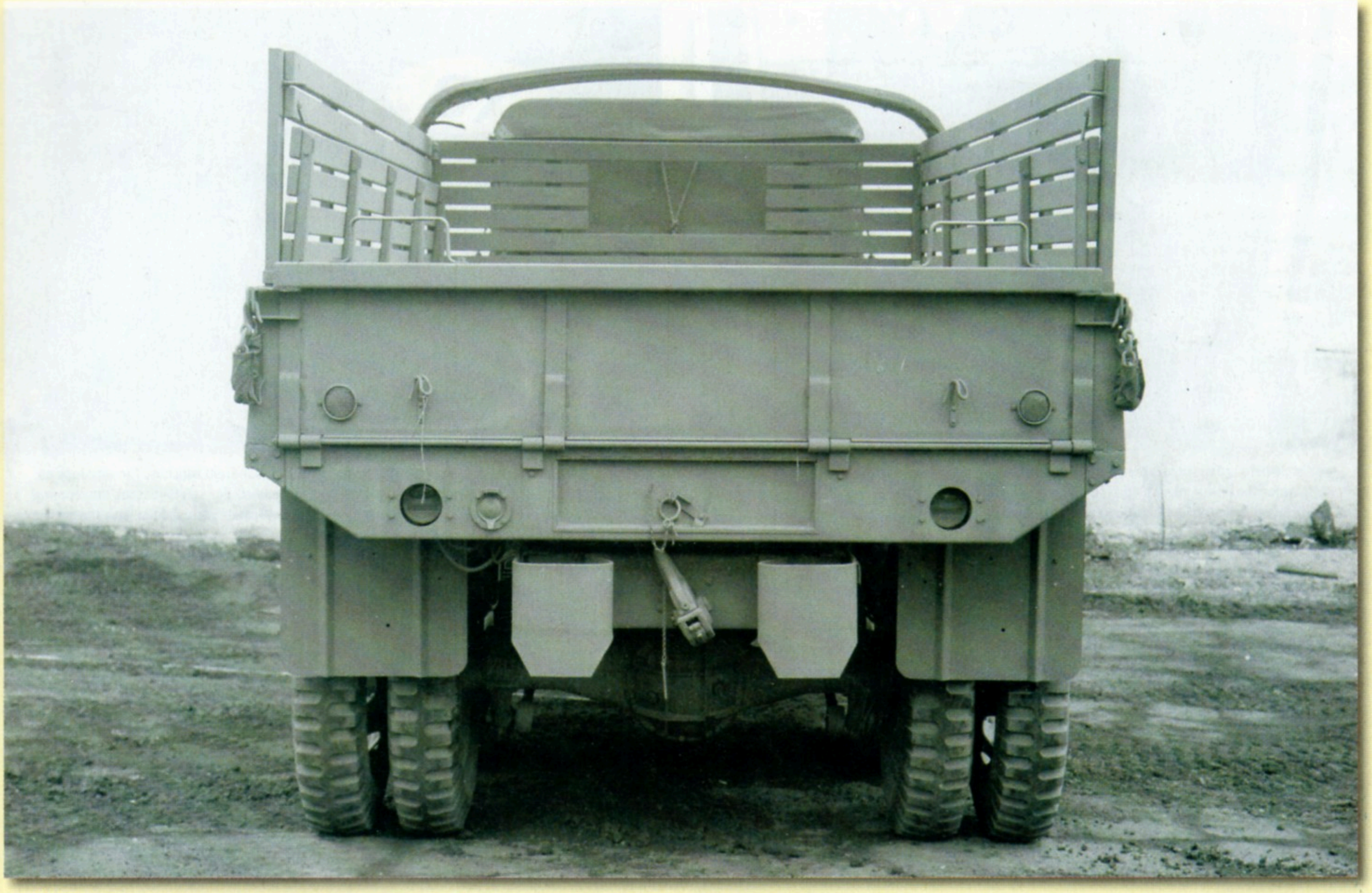


Barely visible to the right of the accelerator pedal is the floor-mounted starter control. Beneath the rotary light switch is the lever that opens the vent in the top centre of the cowl. While this truck has a moulded steering wheels, wooden steering wheels were introduced at about the same time as the open cab.

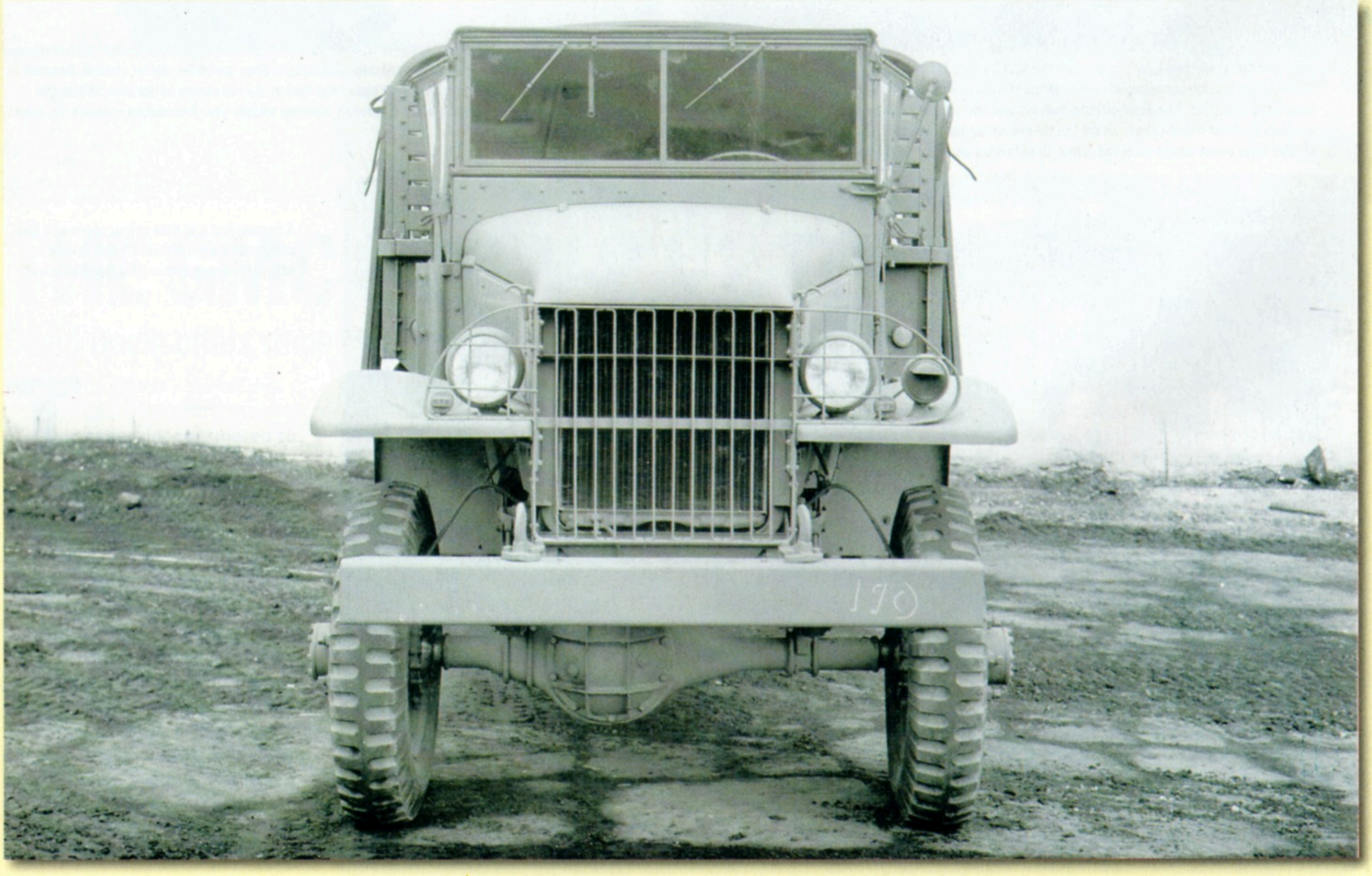


A fascinating war time colour photo of a GMC assigned to an Anti Aircraft unit towing a 40mm Bofors gun through a German town.

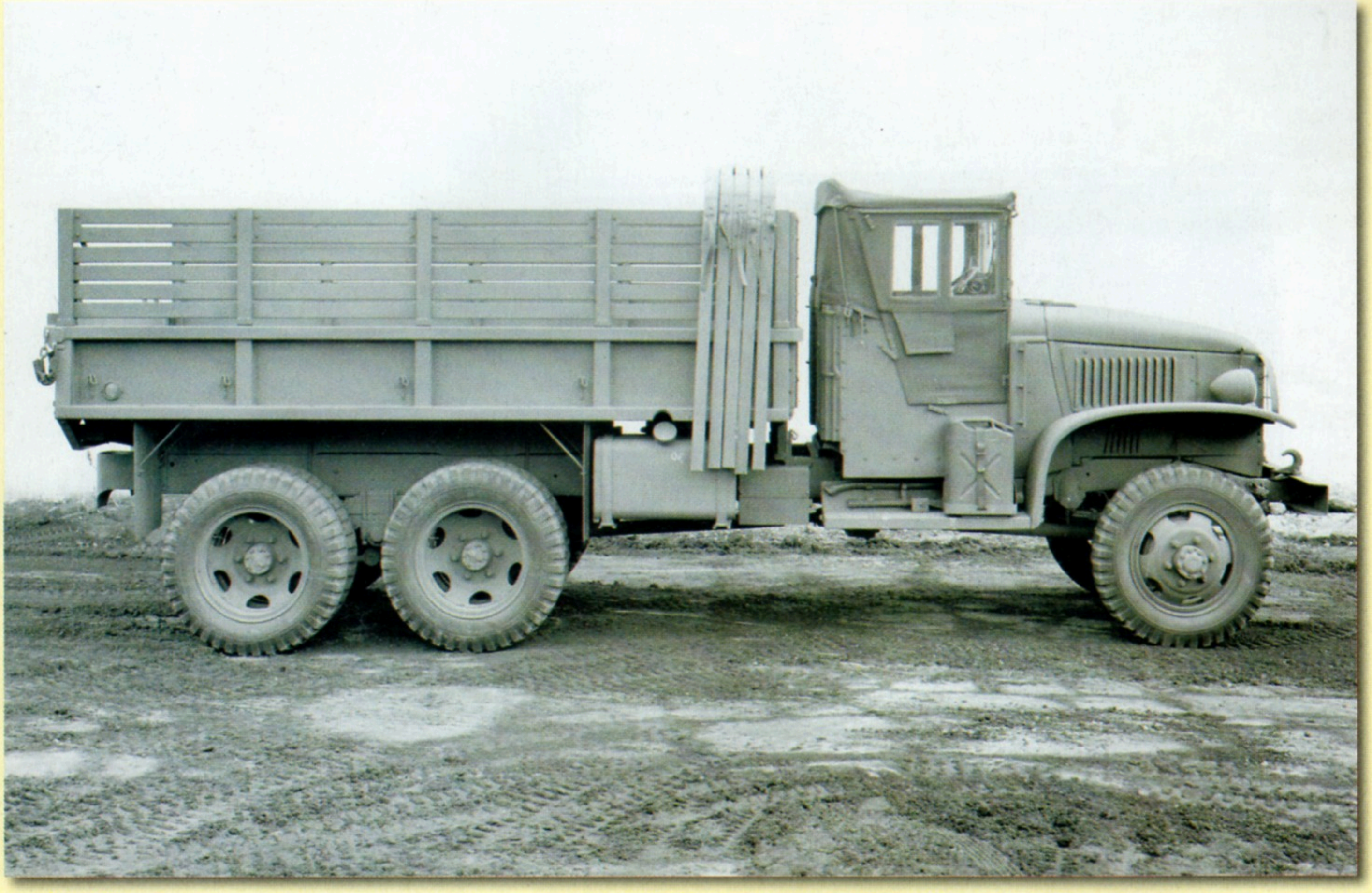
References - The GMC CCKW 2 1/2 ton 6x6 Truck



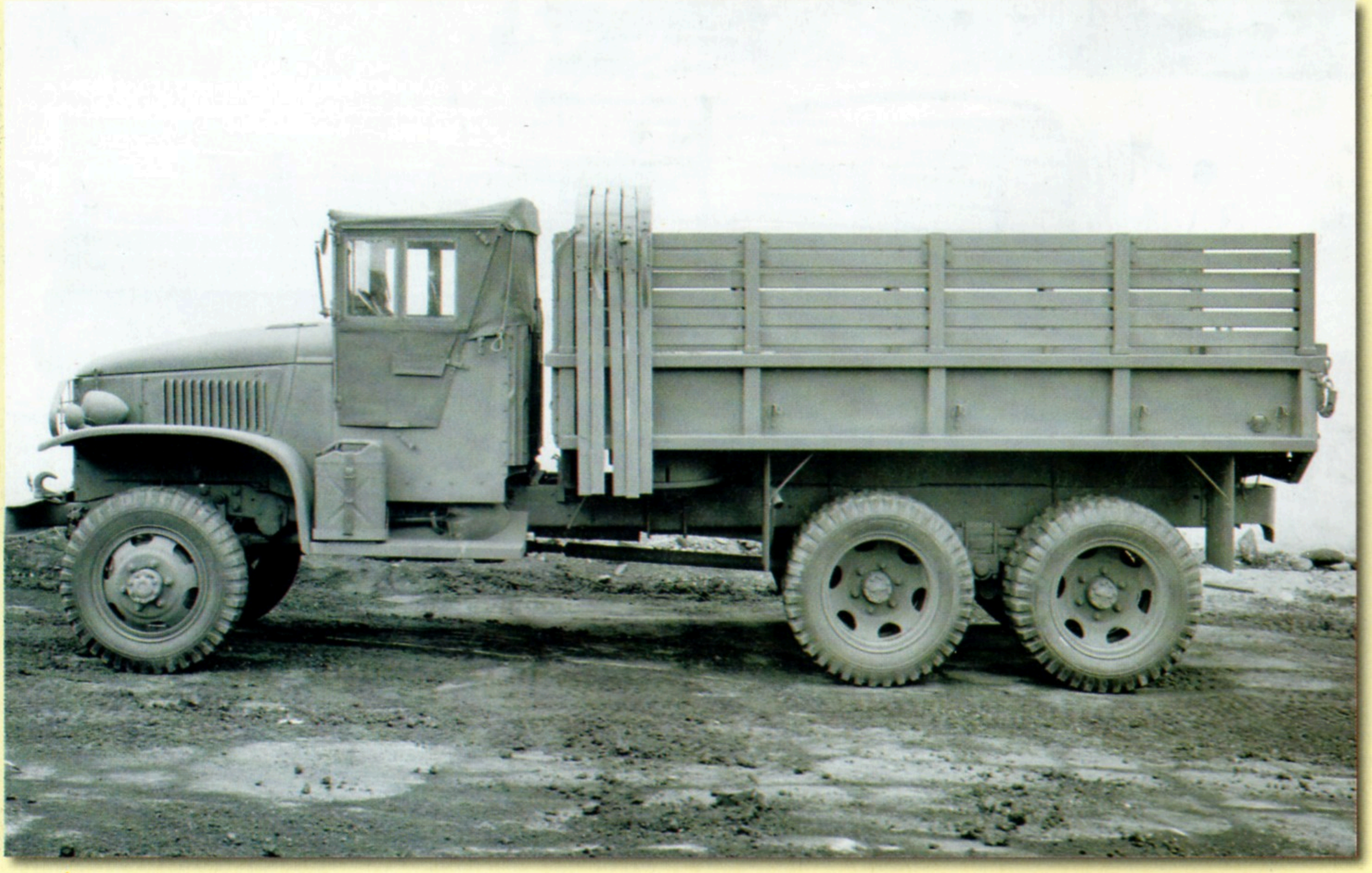
▲ This vehicle has a metal tailgate and side panels where as the Tamiya kit features a wooden tailgate and side panels.



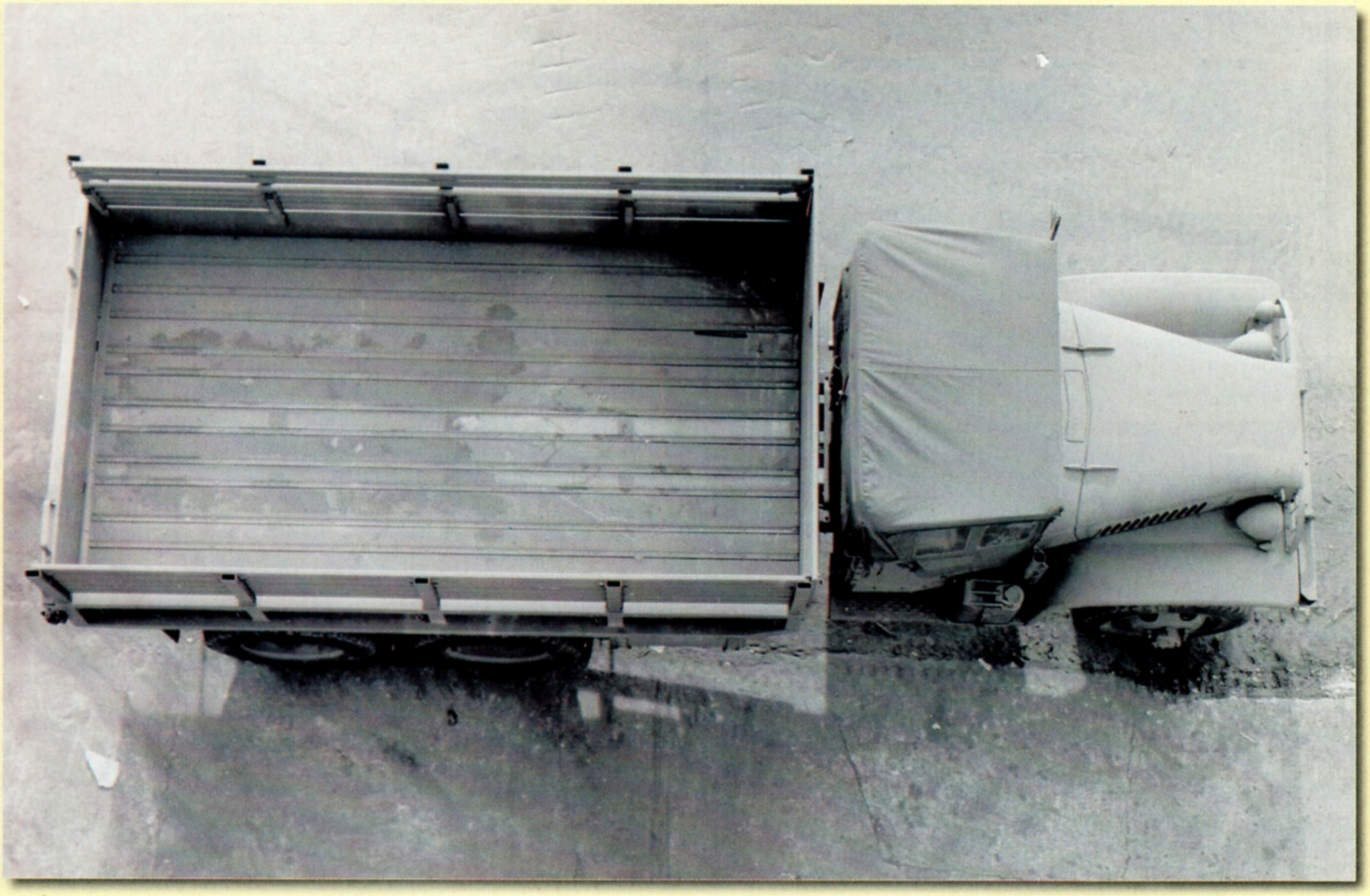
▲ Missing from the Tamiya kit are the two small side lights just outboard of the main headlights. Note this vehicle isn't fitted with a winch.



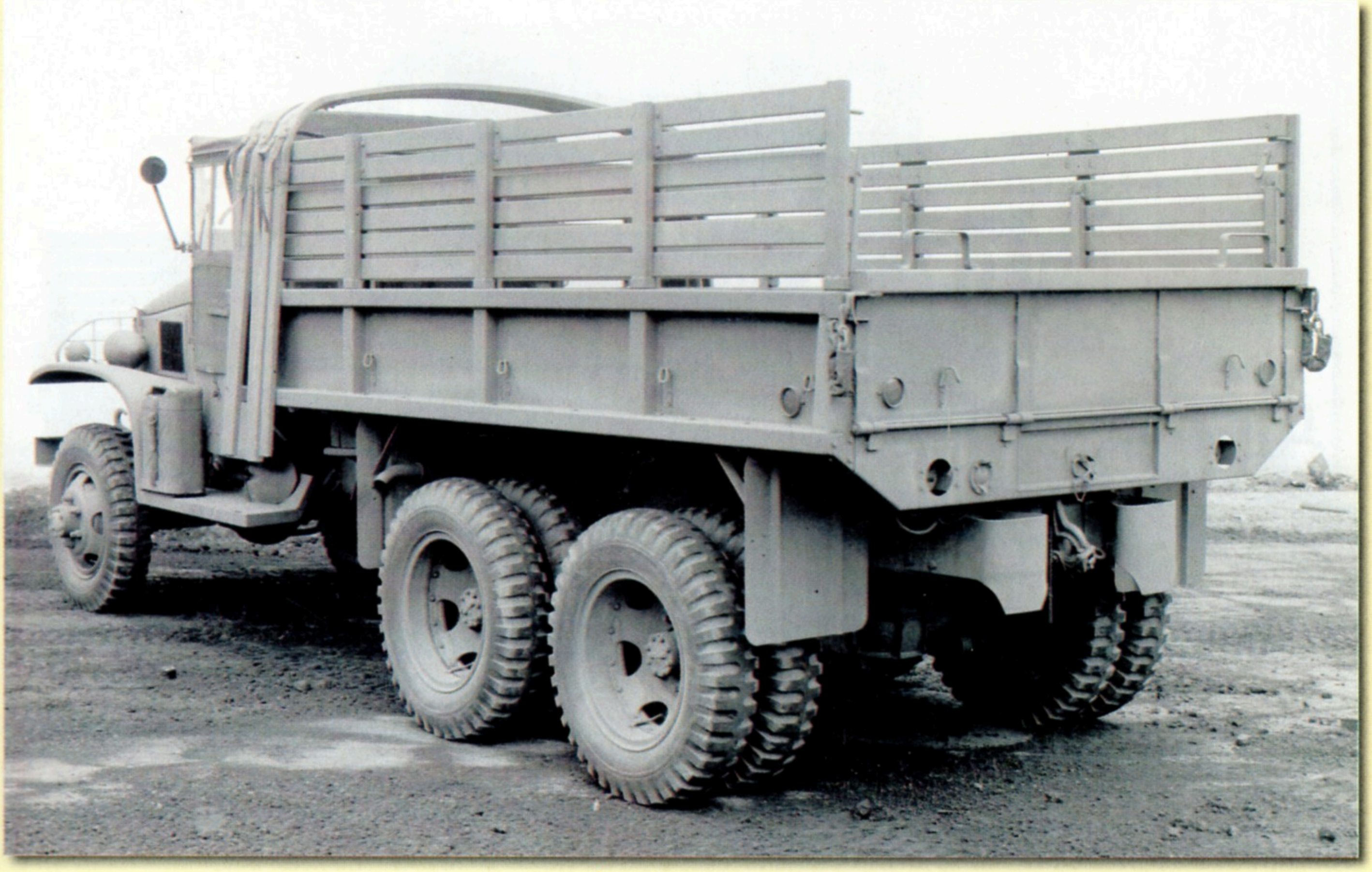
▲ This CCKW-353 carries its pioneer tools on the running boards below either side of the cab. In the Tamiya kit the tools are stowed in the standardised tool rack fitted on the left hand headboard of the cargo bed.



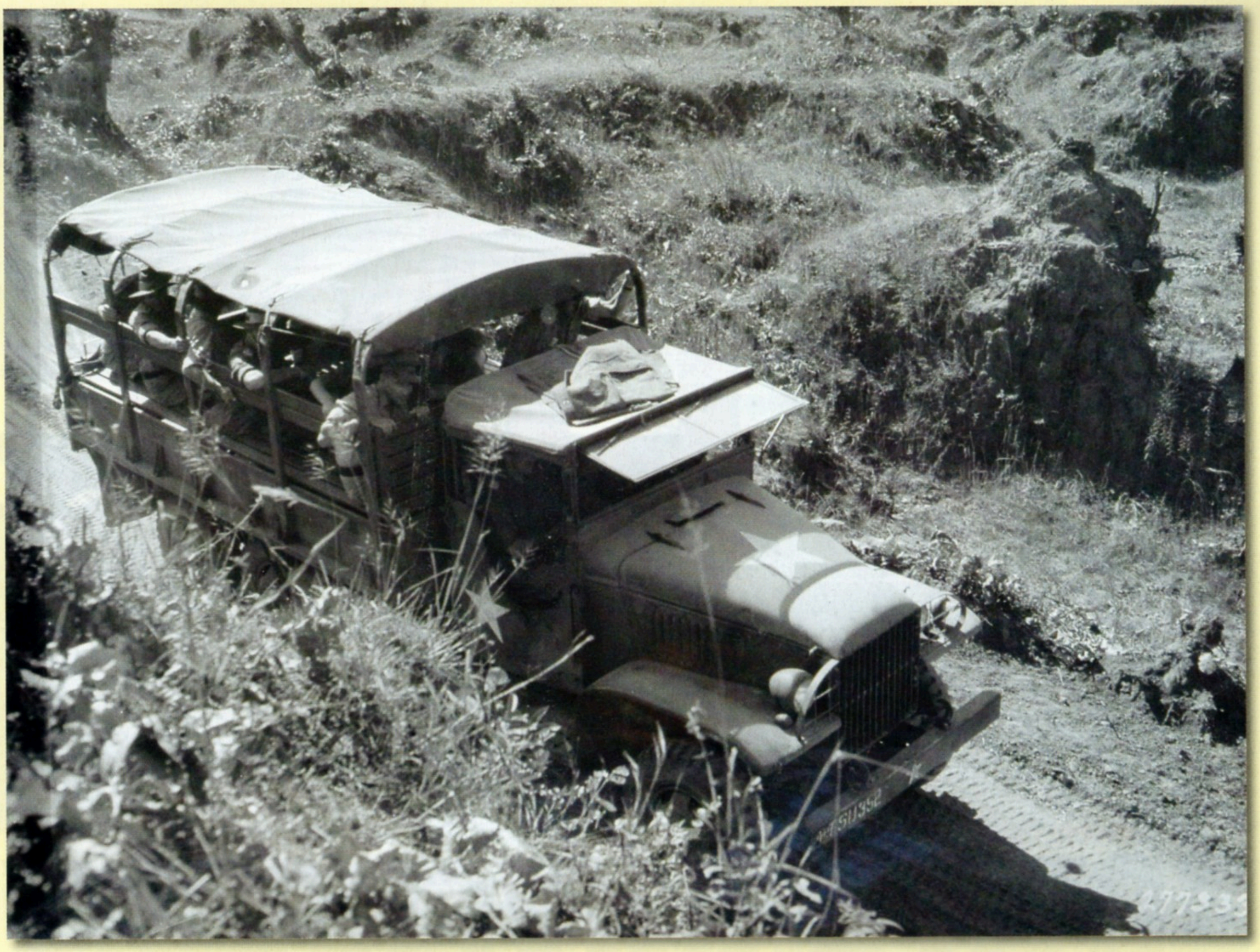
▲ The canvas door covers are not supplied in the Tamiya kit, but could easily be scratch built using some lead foil and clear acetate sheet.



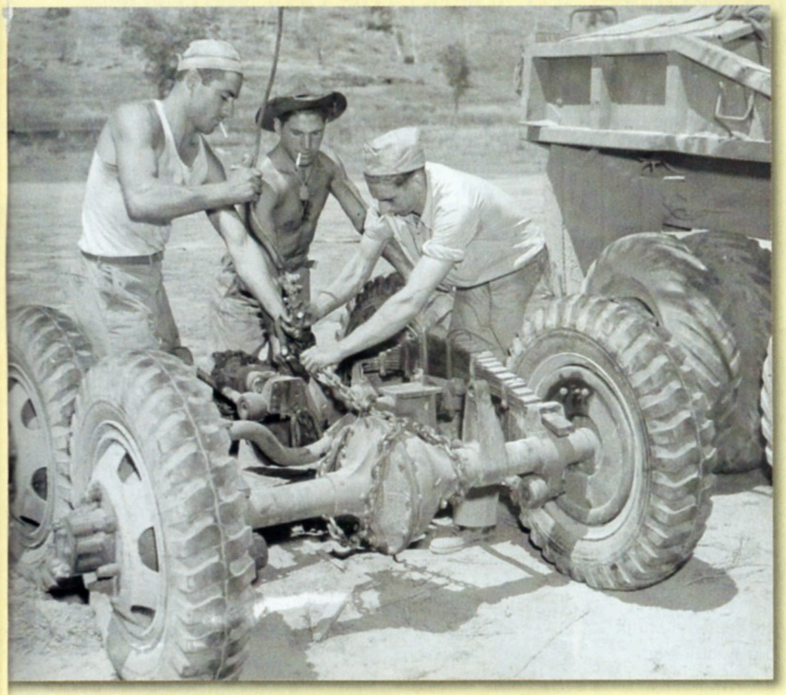
▲ Even on this 'factory fresh' truck the cargo bed has already become stained. Note how flat the paint finish is on the hood (bonnet).



▲ In this photo the numerous tie-downs missing from the Tamiya kit are visible, as is the exhaust pipe, which exits just behind the front mud flap.

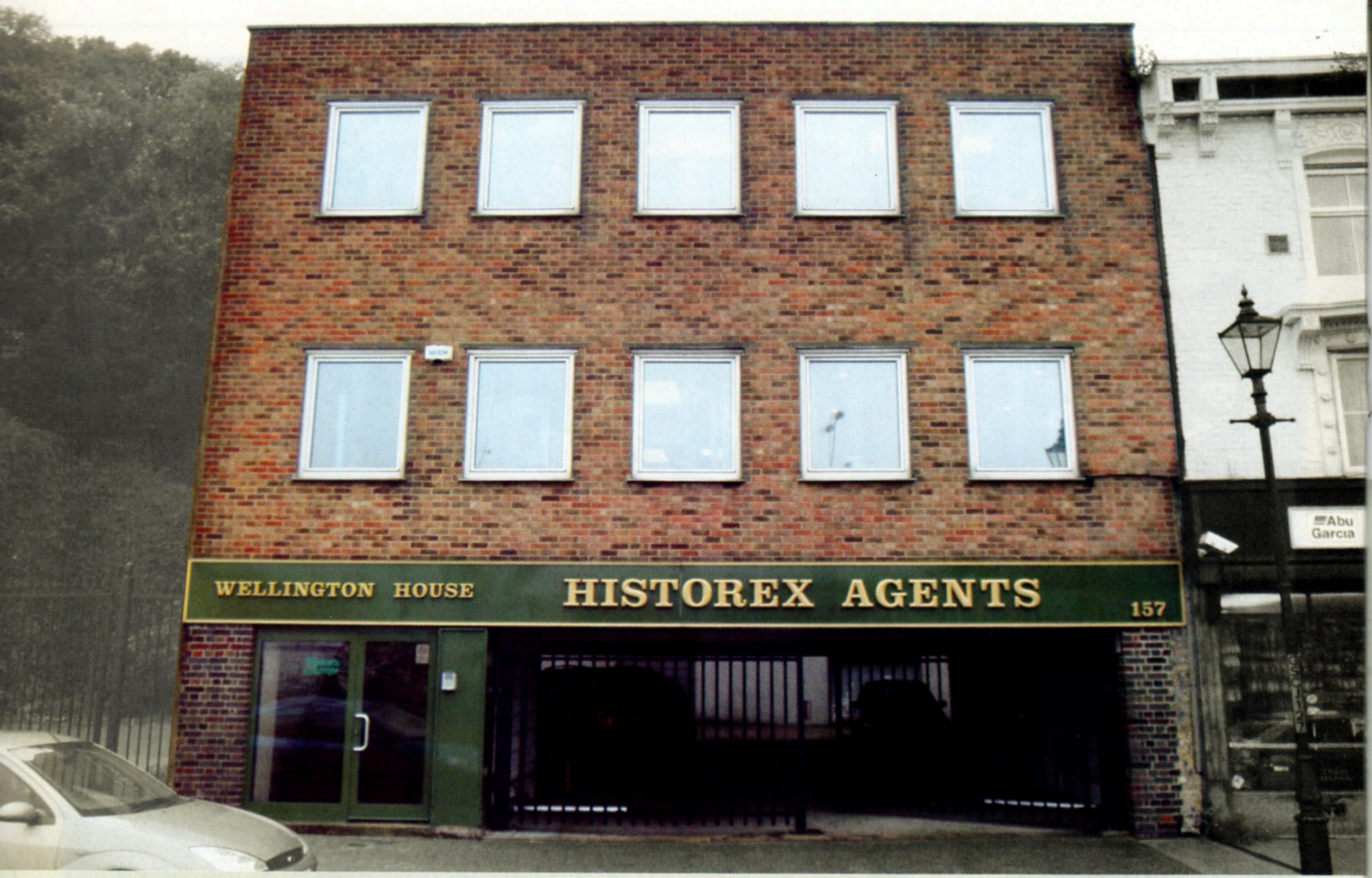


▲ Taken during the Far East campaign, the crew of this GMC have hinged the windshield up to improve ventilation. Note also the that only the top of the canvas tilt over the cargo bed has been erected to form a sun shade for the passengers.



▲ Mechanics prepare to hoist an early split differential Timkin axle assembly. This is the style of axle supplied in the Tamiya I:48 kit.

▲ German POWs being off loaded - at a rough count about 40 prisoners have been crammed into this truck.



40TH ANNIVERSARY

The Editor pays a visit to Historex agents in Dover, to spend the day with the company that has supplied his modelling needs for many years.

In the modern age it is a real milestone that a company within this fickle modelling industry is celebrating its 40th anniversary in business. For me personally, Historex Agents were instrumental in my return to the hobby in the early 1990s. Every time I wanted an accessory, detail set, figure or conversion for my latest project they always had it in stock and it would be dispatched straight away and most importantly would be through my letter box within a couple of days (I was always an impatient modeller!).

The Monday morning following this year's Euro Militaire show in Folkestone, I had the opportunity to visit Lynn Sangster and the team at Historex Agents down the road in Dover.

No sooner had I arrived to sit and have a chat with Lynn than the entrance buzzer went and in walked Military Modelling's Editor Ken Jones and his wife Sandra to say hello to Lynn. Ken has been friends with Lynn for many years and it was fascinating listening to them talk about the early days of Historex, Euro Militaire and Military Modelling magazine.

Lynn gave me a free run to wander around the extensive store areas and take all the photos I needed for this article. Whilst looking along all the rows of stock, it occurred to me that I had just spent the weekend surrounded by model traders, suppliers and every possible military model kit available and not given it a second thought. But the moment I started to tour 'the Historex HQ' I really did turn into a kid in a sweet shop. The one thing I kept saying to myself was 'wow look at this'. It was at one of those points when the voice in my head took on an American accent! Only then did I realise fellow Editor, Pat Stansell of Military Miniatures in Review was also wandering up and down the aisles doing the very same thing.

I had a great time visiting Wellington House and having the chance to talk to Lynn and the guys who have made Historex Agents such a success, I just wish the morning hadn't gone so quickly. There was so much to take in and listening to Lynn talk with such enthusiasm about our hobby was a real pleasure, I could fill this entire issue with the Lynn's biography, from his time in the Royal Navy to co-founding Euro Militaire back in 1985. Lynn is a true gentleman and one of the nicest people you could wish to meet. ■

Armour and figure modeller's paradise!

The foyer is lined with display cabinets full of figures from some of the best figure painters around.

Receipt and dispatch area. Everything has its place making for a very efficient service.

A small selection of the Andrea Miniatures figures kept in stock.

This is where it all began. These drawers contain all the parts for the Historex range of 54mm injection plastic figures.

Just part of the complete range of Verlinden products kept in stock.

WELLINGTON HOUSE
Historex Agents

From left to right;
Rob (trade orders) , David, Lynn and Lee (retail orders).

A BRIEF HISTORY

Lynn's first steps into the business started after purchasing £40 worth of plastic figures from a French company who's work he had seen in the Palais de Chaillot, Paris during the summer of 1966. He first took his samples to a couple of the larger toy shops, but met with no real interest, back then it was all about metal figures (lead to be precise).

Next Lynn contacted Airfix, who persuaded him to take out an advert in the Airfix Magazine, thankfully the advert proved successful and Lynn hasn't looked back since.

Nowadays Historex are equally well known for stocking an extensive range of products for armour modellers, including Verlinden, Aber, Friulmodel, Archer, Hornet and Resicast to name but a few.

Thank you to Lynn, David and the guys for making me feel most welcome during my visit and for supplying all my modelling needs over the years. The Editor.

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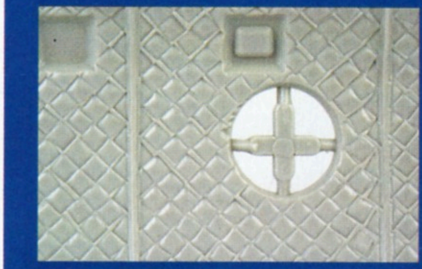
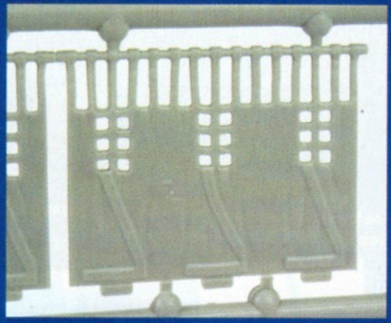
Tel: 01304 206720
Fax: 01304 204528
sales@historex-agents.co.uk

Chinook™ HC.1
(CH-47C)
№ 2662
1:48
Giant decals:
ITALERI
2007
KitCollection
PhotographicReferenceManual

Paul Egerton casts an eye over Italeri's second quarter scale release of the CH-47 Chinook.





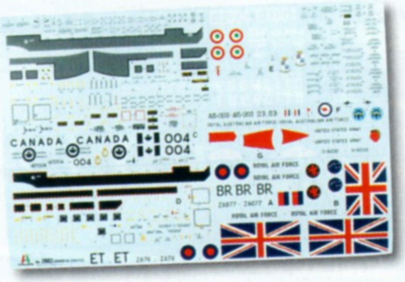
HYDRAULIC PALM TREE

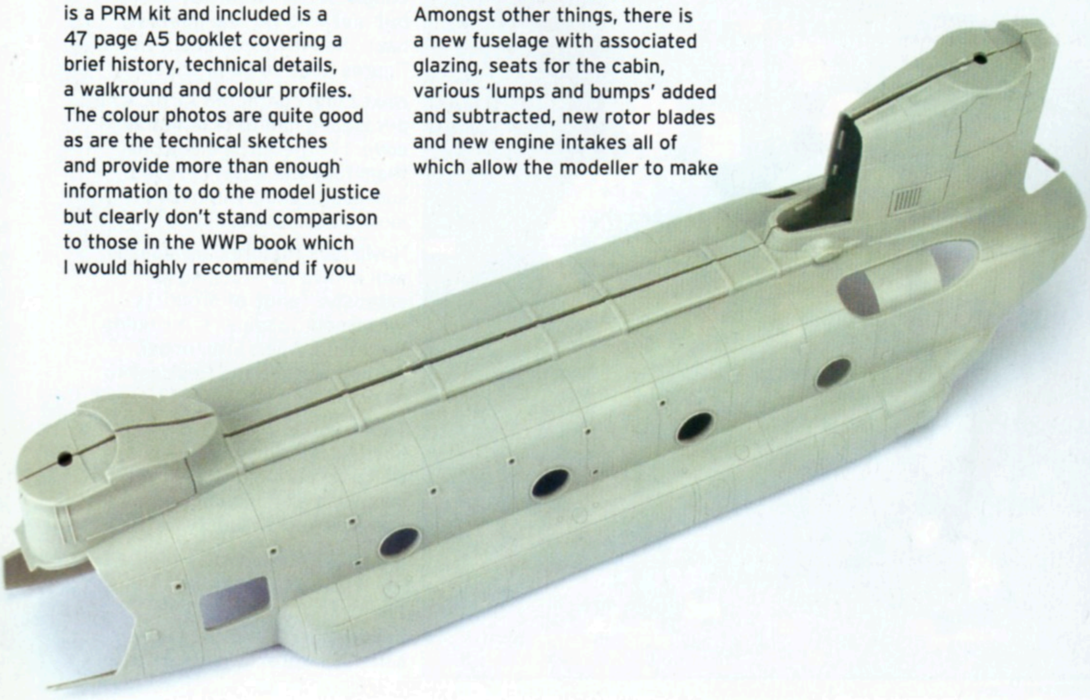
The long awaited RAF version of he Chinook is now available and what a superb package it is. The box is in the now familiar Italeri blue with orange edging denoting the kit to be one of the Photographic Reference Material (PRM) collection. The artwork on the box top is eye catching and on the bottom are detail photos of the assembled and painted kit and its components together with colour profiles of the six variants that can be built. Also included in the package is an excellent print of the aircraft and a repeat of the colour profiles. Truly first rate packaging but once again one of my gripes - the box is end-opening unlike their CH-47A so no tray to work in or over!

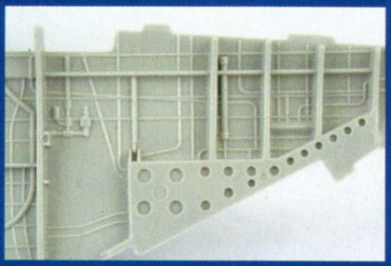
As previously mentioned, this is a PRM kit and included is a 47 page A5 booklet covering a brief history, technical details, a walkround and colour profiles. The colour photos are quite good as are the technical sketches and provide more than enough information to do the model justice but clearly don't stand comparison to those in the WWP book which I would highly recommend if you are going to tackle this kit. The instructions are standard Italeri - a 24 page A4 booklet clearly reproduced and with good size sketches. Decals are provided for 6 aircraft - 2 from the RAF and one each from Canada, Australia, Italy and the USA.

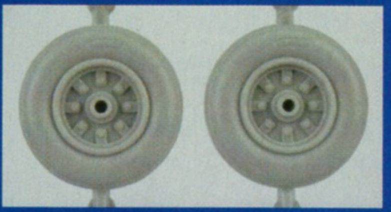
Now what of the kit itself? Obviously it has its genesis in the previously issued CH-47A as was the real thing. It really is very good, crisply moulded in light grey plastic (unlike the CH-47A in green) with a high level of detail. The cabin interior has been particularly well done as has the rotor assembly and some of the aerials are very fine indeed. Having said that the kit is based on the CH-47A, what of the differences? Amongst other things, there is a new fuselage with associated glazing, seats for the cabin, various 'lumps and bumps' added and subtracted, new rotor blades and new engine intakes all of which allow the modeller to make a faithful reproduction of the HC1.

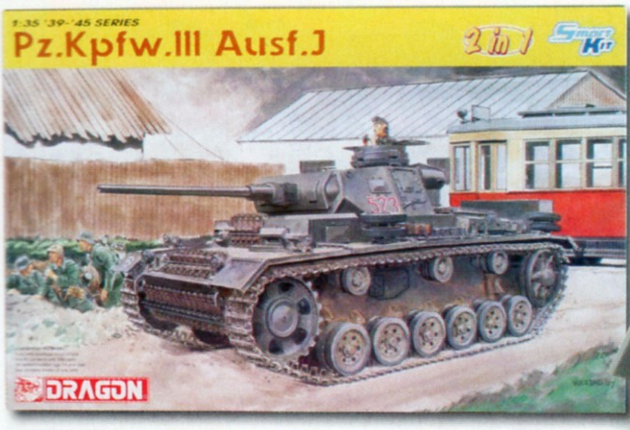
We have come to expect a high standard at a reasonable price from Italeri and this kit doesn't disappoint. It is a comprehensive package, well produced and a must for any helo, RAF or modern aircraft collection. Unreservedly recommended and it is great to see Italeri pushing their own limits. Buy one now! ■



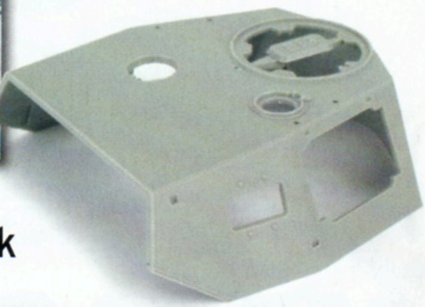








DRAGON
Magic Track



Andy Willis Is a fan of Dragon's Smart Kits, but what does he think of the latest (2 in 1) Panzer III?

SPLIT PANZERNALITY

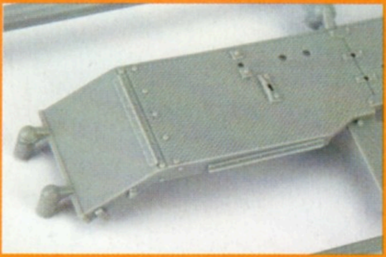
I have to say, right at the off, that I am a big fan of the Dragon "Smart Kit" concept. It seems to me that each one gets slightly better than the last. It would appear that Dragon want a variant of every German mainstream tank in their Smart range as soon as possible. They have announced a Panzer II F and a reworked Panzer 1A to join this and the previous Panzer IV F2 (G) and Panther G kits.

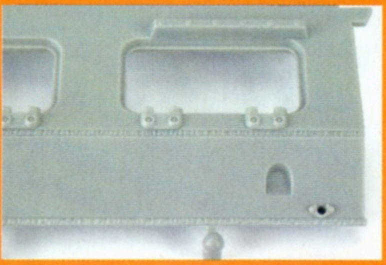
I suggest that the first thing you do after buying this kit is to study the box sides and bottom to see just what detail is included in the box; then a very careful run through of the instructions as there are a lot of very detailed steps to negotiate before this model is complete. The modeller will have to decide fairly early on which option to take for although it is billed as a 2 in 1 kit, there are actually four main options: short 50mm gun, short 50mm with extra spaced armour, long 50mm gun and finally, long 50mm with the spaced armour. This actually leads me to my only question of this kit - there is only the later engine deck provided. The only option you get is where the covers for the ventilation on the two main hatches are running front to back. The early J models had either hatches without ventilation covers or with them running side to side. I would think the long variants will be fine, but references may need checking if a short gunned variant is chosen. I trawled through all my references on the Panzer III J and could only find a couple of photos of short gunned tanks with the later covers.

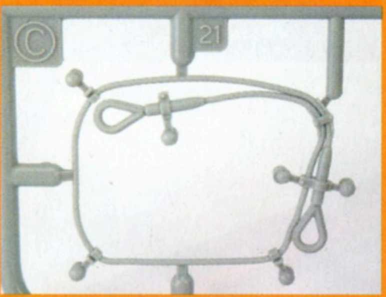
When you open the box you are faced with the usual Dragon trade mark, full to the brim sight, but as this is a smart kit you can get everything back in again once you have checked through the sprues. As the Stug III was based on the Panzer III chassis, this kit has several sprues from the previous Stug III G smart kit covering the suspension, tracks and rear plate and exhausts. The lower hull is new: there are side escape hatches in the Panzer III J that are missing in the Stug III. A couple of the sprues are from the more recent Panzer IV F2 (G). The rest of the sprues are marked as Panzer III without mention of a variant: a sure sign of more Panzer IIIs to come.

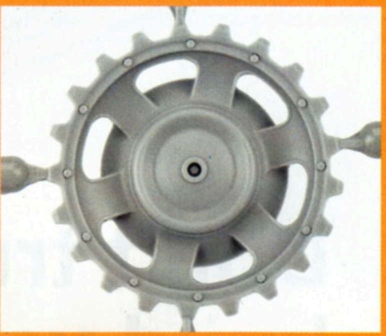
There are two bags of individual magic tracks moulded in two different shades of grey to make sure they do not get mixed up by accident. There is also a small sheet of etched brass for those thin parts even Dragon cannot mould out of plastic. There are two small sprues in clear plastic for the headlight lenses and all periscopes. Finally the decal sheet includes eight options covering the Russian and African fronts, in Panzer Grey, White or Afrika Korps Sand.

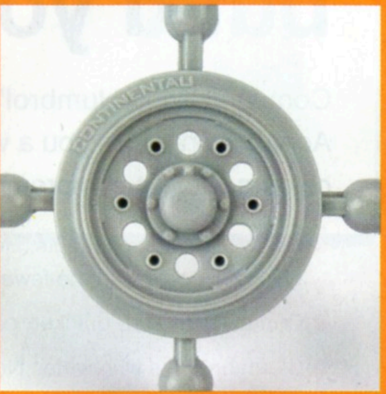
It is when you start working your way through the instructions that you realise the attention to detail that Dragon put into this model: the mounting strips for the track guards on the lower hull, torsion bars visible inside the lower hull, mounting clasps on the vehicle tools, all vision ports will open and have clear plastic vision blocks. Both 50mm guns are moulded in one piece, and the vision ports on the commanders cupola can also be shown open or closed. The screw head detail is there on the turret top too. The rear deck has all lifting hooks included and the mounting points for the steel cable are given as separate parts. I could go on and on. Another promising thing about this kit is that the parts left over indicate an M/N and maybe even an L variant are planned for the future. So to recap, an excellent, highly detailed kit without the need for after-market additions, and which really enhances the growing Smart Kit range. It would be nice, however, to see a few more Allied tanks in the smart range - an M24 Chaffee or a Churchill or two would be very well received. ■

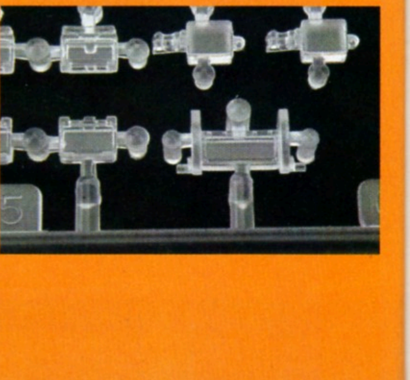


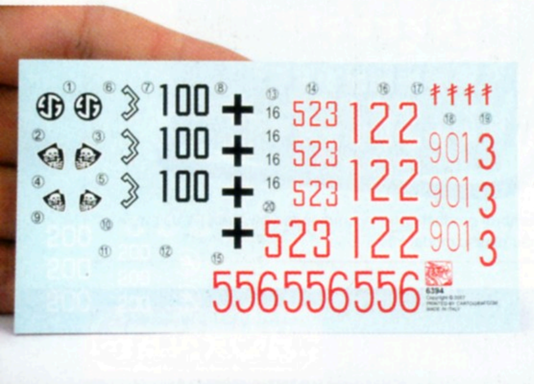


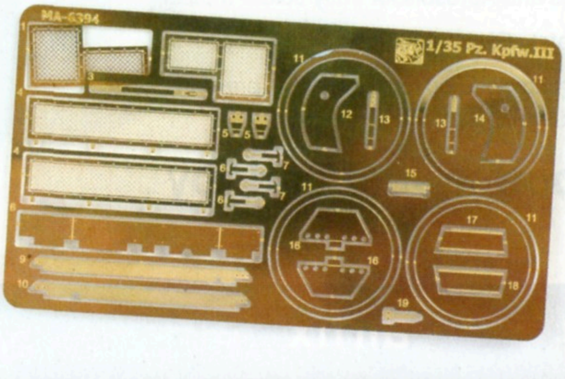






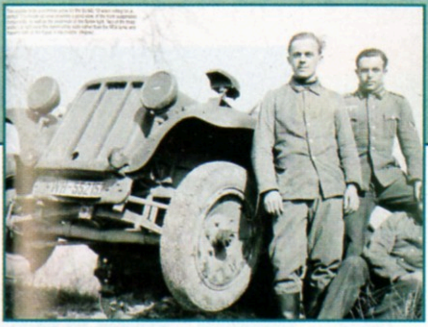




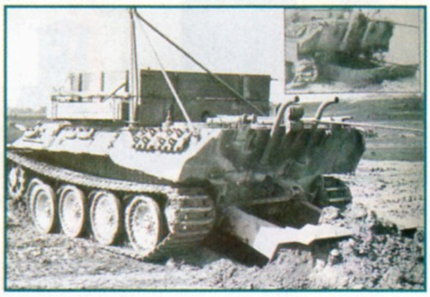


Book Reviews

Allied-Axis
THE PHOTO JOURNAL OF THE SECOND WORLD WAR
M2/M2A1 Halftrack
19



Bergepanzer 38



ALLIED AXIS NO.19

AMPERSAND PUBLISHING

It's hard to believe we are at number nineteen in this excellent series, dedicated to offering invaluable reference material perfect for modellers. This issue contains reports on the M2/M2A1 Half Track, German Sd.Kfz 10, Bergepanzer recovery tanks and the Krupp L2H143 (Protze). The book, as usual, contains large format photos, which are perfect for using as reference. I particularly liked the feature on the M2 Half Track as this has been timed perfectly with the recent release of the M2 and M4 from Dragon.

Another edition full of really useful photos and informative captions which will most definitely be of use to anyone interested in of the topics it contains.

Available from www.historex-agents.com

The Editor

Chinook
in detail
Present Aircraft Line nº 13
František Koran
Jaroslav Špaček
Ralph Zwilling
PHOTO MANUAL FOR MODELLERS

PRESENT AIRCRAFT LINE NO 13 CHINOOK IN DETAIL

FRANTISEK KORAN, JAROSLAV SPACEK, RALPH ZWILLING

WWP • ISBN 978-80-86416-62-5

This is a timely publication with Italeri's 1:48 HC1 hitting the streets. No.13 in WWP's Present Aircraft Line does exactly what it says in the title! The format is well established and the range is, by now, relied on by modellers to provide the level of detail to lift a kit from the ordinary to the exceptional. I won't repeat the superlatives that I've applied to this range in the past but suffice to say there are 120 pages of outstanding photos covering the CH47C, HC1 and HC2 with interior and exterior receiving equal attention. A slight quirk with the book is that what amounts to an index appears on page 88 rather than at the end - I suppose there is a good reason for this but it escapes me!

I can't praise these books enough and we modellers are very fortunate indeed that WWP keep churning them out at a reasonable price. A must for any modern aviation library. Unreservedly recommended.

Available from www.bookworldws.com

Paul Egerton

New Vanguard
OSPREY PUBLISHING
Churchill Crocodile Flamethrower
David Fletcher • Illustrated by Tony Bryan

CHURCHILL CROCODILE FLAMETHROWER

OSPREY PUBLISHING • NEW VANGUARD 136

BY DAVID FLETCHER (ILLUSTRATED BY TONY BRYAN)

ISBN 978-1-84603-083-3

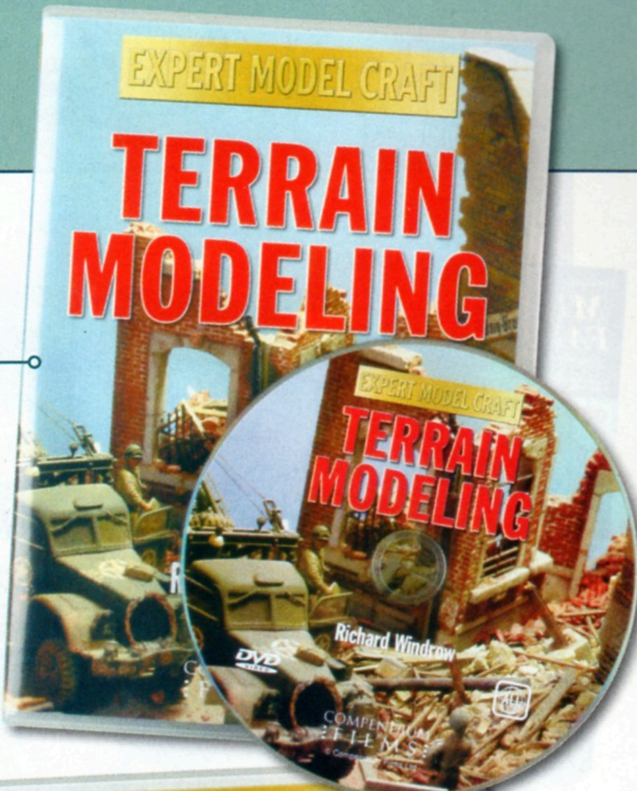
New from this respected leader in publishing is a book in the New Vanguard range (from an equally well-respected author) on a subject that is very controversial in modern warfare, i.e., the use of flame to dispose of your foe. This weapon has its roots in history and therefore the subject, in my opinion, should be fully documented.

This book covers not only the Churchill but the forerunners and stablemates to the Churchill that were devised, developed and deployed throughout WWII by the British at home and abroad in the fight against the Axis powers. From page three to page forty seven you are held spellbound by the detailed presentation of David's text and photographs, then Tony adds an artists view of how these fire-breathing dragons would have looked, engaged in day to day combat.

At first you may assume this title to be rather specialised, but if you have a passing interest in Allied armour then this is a must for you with Shermans, Rams, Comet, M29C, LVT IV, Wasp, Valentine and of course Churchills - it will set your modelling imagination alight with ideas for future projects! I look forward to the next edition on flail tanks due out by the time you read this from Osprey.

Available from;
www.ospreypublishing.com

Ian McGonagle



TERRAIN MODELLING
BUILDING GERMAN ARMOR

EXPERT MODEL CRAFT • COMPENDIUM FILMS

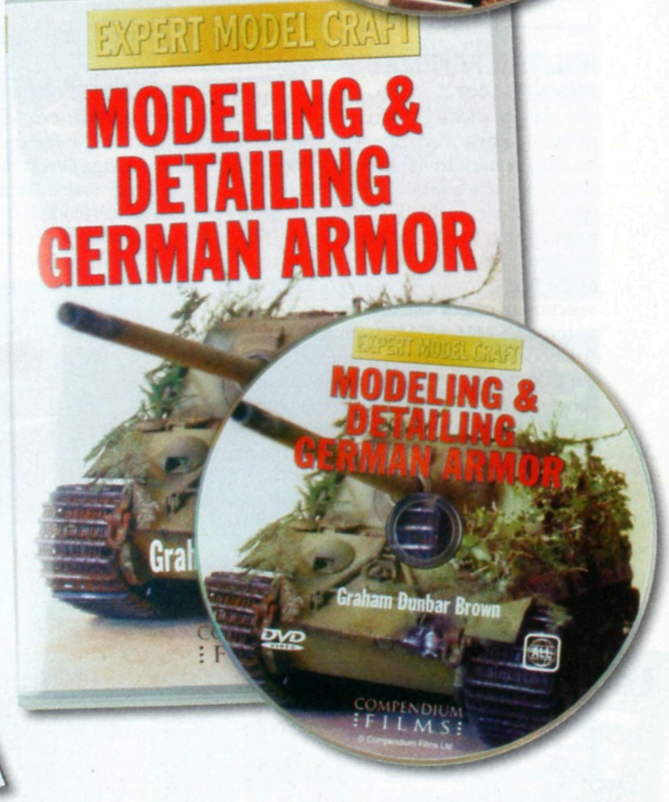
Having reviewed and enjoyed watching the previous DVDs in this collection I was eager to see the latest two releases. The first I took a look at was 'Terrain Modelling' with Richard Windrow. As with the previous editions on 'Airbrushing' and 'Figure painting', the main programme is divided into separate chapters, which means it is easy to find the one you're after. I must say Richard is a real natural in front of the camera, from his clear and informative narration to the way he produces examples of the terrain features he is describing. I personally learnt a lot from this DVD, even though I have been building dioramas for years! I picked up many new tips and techniques whilst watching Richard explain how he does it. Terrain Modelling is an absolute must for anyone wanting to learn or improve their dioramas and groundwork.

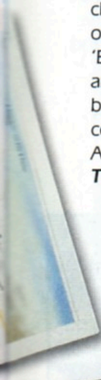
'Building German Armor'. I hoped this was going to be every bit as good as the rest of the series, but unfortunately I was disappointed with this edition. I sat and watched it with two of MMI's contributors - Kev Smith and Darren Thompson, both of whom have a keen interest in German armour, and from the offset we were rather surprised when it came to just about every aspect of the build, including the way most of the upper hull had been completely assembled before Mr Brown decided to saw off the front fenders and in doing so, put saw marks across the glacis plate and even managed to slip badly enough to mark the turned aluminium gun barrel. Moving onto the painting, and I must say this really was a 'how *not* to', from trying to brush-paint the turret numbers using Tamiya acrylic Matt White paint, to the over zealous use of a piece of scouring pad to apply paint chips - the size of the 'blobs' have to be seen to be believed on the two domed ventilators on the engine access hatch.

'Building German Armor', as far as I am concerned, offered little good advice to modellers and certainly none for a novice hoping to improve. I'm sorry if this all seems rather harsh, but I have a real passion for this hobby and feel that this programme is poor in content compared to the rest of this excellent series, and I'm afraid cannot recommend it.

Available from www.historexagents.com

The Editor





M-50
Sherman tanks and APCs in South Lebanon

BLUE STEEL IV
M-50 SHERMAN TANKS AND APCS IN SOUTH LEBANON

MOUSTAFA EL-ASSAD

Blue Steel IV has been produced in the A4 format, and consists of 68 pages of colour photos of various M-50 based vehicles in varying states of repair, or disrepair come to think of it. Not only does it contain a wealth of references for models of the M-50, but you'll also find some superb painting, weathering and battle damage photos in there too - exactly the type of material Mig recommended in last issue's 'Techguide' on painting and weathering his knocked-out Panzer IV.

The only thing I could possibly fault is that the models featured towards the back were not particularly well painted, but having said that, they do still offer some useful construction references for anyone wanting to undertake such a project. A great book that has really got me fired up to add a knocked out vehicle diorama to my 'to do' list. For those interested in modelling vehicles from the Middle Eastern conflicts, this will be well worth adding to one's reference collection.

Available from www.aviationbookcentre.com

The Editor

Book Reviews

MILITÄR FAHRZEUG
Ausgabe 3/2007
(ESK) MUNGO
21 cm Mörser M10 und M16
Prairie Eagle II
TYPE 73
IDEX 2007
"Prairie Eagle II 2006"

MILITAR FAHRZEUG

AUGUST 3/2007

The team at Militar Fahrzeug have done it again with another excellent edition of this quarterly magazine. This issue contains features on the Bundeswehr's MUNGO, which to me looks like something from the Judge Dredd movie. Also covered is the UK's 4th Armoured Brigade's exercise 'Prairie Eagle II 2006', which includes some nice photos of Challenger II in action along with some well camouflaged CVRTs. Following this we have articles on the Japanese Army's type 73 'Jeep', the USMC's Medium Tactical Vehicle replacement (MTVR), motorcycles of the East German Army and finally a useful selection of colour walkaround photos of a restored US M16 MGMC halftrack.

The good thing about this series is, although the main text is in German, the books do contain English captions for all the photos as well as an English summary in the back pages. Another first rate addition that's most definitely worth picking up.

Available from www.bookwoldws.com

The Editor

PANZERWRECKS
4
German Armour 1944-45
Lee Archer and William Auerbach

PANZERWRECKS VOLUME 4 GERMAN ARMOUR 1944-45

LEE ARCHER AND WILLIAM AUERBACH

SOFTBACK 97 PAGES • ISBN 978-0-9555940-0-7

This is the fourth volume of Panzerwrecks, in the now familiar landscape format. Most of the images are displayed one to a page, with a precise and informative caption, giving as much detail as the authors have managed to gather. Most photos are newly published and focus solely on disabled, captured or surrendering German vehicles during the closing stages of the war. Some of the standout sections for me include the surrender of Pz.A.A.20 in Czechoslovakia, showing some great shots of the '234s and their crews being inspected by the Americans, also a convoy of Feldhernhalle '251s, '234s and softskin vehicles, fully loaded with crew and gear and displaying some wonderful camouflage schemes. Finally, the last eleven images in the book are devoted to the Henschel assembly plant, showing unfinished Tiger IIs on the production line. This book is crammed with model and diorama potential and is a must for all serious German armour fans - thoroughly recommended.

My thanks to Lee Archer for the review copy.

Available from www.panzerwrecks.com

Darren Thompson

In Detail
Special No.4
Strv 103B/C
S-tank 103C at the Belgian Royal Army Museum
& 1/35 and 1/72 Scale Models
WWP
PHOTO MANUAL FOR MODELERS
Driver's Comp.

IN DETAIL SPECIAL NO4 STRV 103B/C

FRANTISEK KORAN, JAN MARTINEC, JAN-WILLEM DE BOER

WWP • ISBN 80-86416-49-6

This relatively new series from WWP appears to be a 'big brother' to their more familiar books covering vehicles and aircraft past and present. It is published in portrait format, larger than A4 and in English; this allows for much larger and clearer photos. 61 of the 72 pages are devoted to a detailed photographic coverage of all aspects of this unusual Swedish AFV (over 220 photos and 8 drawings). The photos are excellent - large, pin sharp and with good colour balance. The 'detail' close-ups are really outstanding showing all those bits that we modellers love to reproduce. The vehicle featured is that in the Belgian Army Museum collection so there are no in-service shots or variations in camouflage schemes and weathering but this is a minor shortcoming.

The final 11 pages cover 1:72 and 1:35 scale Trumpeter models of the vehicle. All photos are of the finished article with no 'in course of build' shots although the text covers this. I believe that this approach minimises the usefulness of this section - why do you need several photos of completed kits when you have the same of the real thing?

Notwithstanding the minor gripes, this really is an outstanding publication. It will be interesting to see what features in the next of the series (No1 and the yet to be published No2 cover aircraft). No modern AFV library should be without this book. Unreservedly recommended.

Available from www.bookworldws.com or www.wwpbooks.com

Paul Egerton

Letters

WRITE TO: MMI Letters, ADH Publishing, Doolittle Mill, Doolittle Lane, Totternhoe, Bedfordshire, LU6 1QX, UK
Tel:01525 222573 Fax:01525 222574 Email:editor@modelmilitary.com
The views expressed are not necessarily those of the editor or publisher.
Letters may be edited for publication.

PLANES!!!

I have just received issue 17 of MMI in my hand and have not really had time yet to read anything but your explanation on why putting a PLANE (for crying out loud!) in the mag. NO excuse needed. As you say, it's a spotter plane and in a scale preferred by many armour modellers. Once you said that you would have armour and helicopters in the mag. Not so many helicopters so far, and as the L-4 was performing tasks nowadays performed by helicopters, it is therefore to be considered a helicopter. Or as you put it; an aircraft...
Being not much of an armour modeller, I find your articles and reference pictures very useful for other sorts of modelling, primarily cars and god knows what.
Keep it up!

Stellan Englund,
Stockholm

Ed says; ***I have received a few comments regarding the L-4, so I'm glad you agreed with my reasons. I hope you will like the 1:48 Sea Knight we featured in issue 18? It is also good to know that you have found the techniques we have explained have been useful for own modelling projects.***

STUGS IN ACTION

The references section in MMI October 2007 is excellent. Recovered in Poland and StuG IV in action show a really interesting selection of photographs.
The Sturmgeschutz IV wreck is very good, lets have more of these! The archive pictures really tell a story, the one on page 41 that you describe as haunting shows the trooper on the left shouldering an MP44 Assault Rifle, this weapon is only rarely seen in late war photographs.
Thanks for including pictures I found interesting and informative.

Terry Birch

Ed says; ***I'm glad the wartime photos of the StuG IV Thomas included in his article were of interest to you and hopefully Thomas will be supplying us with many more fascinating articles such as his StuG feature.***

SEA FOAM

Just read this months mag, awesome as always, In you letters section you had Mark Russell asking for sea foam! You can get the foam you want from *www.craftfoam.co.uk* I spent days looking for this stuff on the internet, with the idea of supplying it to fellow modellers but thanks to the royal mail it was a non starter, so I guess I could just help out.
It comes in handy 60cm square tiles of differing thicknesses. I can imagine that you're quite busy but if you could pass this on to him that would be great.

Ian McIntosh

Ed says; ***Thanks for the info Ian, the stuff Mark was after is called 'Sea Foam' and is actually a plant, which is perfect for making small scale trees and bushes. Sea Foam can normally be bought by the bag at model railway exhibitions. The stuff you have found is what we used to call 'Sugar Board' in the Airforce and is the perfect material for building-up diorama groundwork and Tarmac roadways. Thanks for supplying the web details as this product has always eluded me as to where to purchase it.***

MESSAGE FROM THE EDITOR

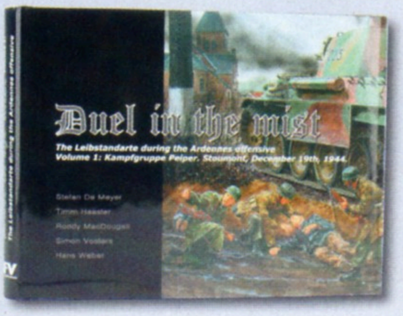
EURO TALES

Euro Militaire held in Folkestone on the weekend of the 22/23 September is, to be honest, my favourite modelling event of the year. Not only is it a chance to see the very best armour and figure modelling in the world, but it's a great social gathering.
Back in Issue 8's Last Post I wrote about my fellow club members getting locked out of their hotel room and all having to sleep on the floor of my room. Well I got my own back and swapped my good friend and contributor Darren Thompson's room number over, which I was pleased to learn had him very confused and wandering the corridors of his hotel at 3am. Revenge is sweet.
On a more professional note I was asked to be one of the judges at this year's competition. This was a great honour and one of the hardest undertakings I have had to do in this hobby. The standard was so high, this hobby has truly become an art form and not just a bunch of grown up kids gluing 'Airfix' kits together. Well done to all those who entered!

See you again on December 6th!

Spud
John 'Spud' Murphy

RECOMMENDED READING


Duel in the mist
The Leibstandarte during the Ardennes offensive
Volume 1: Kampfgruppe Peiper. Stoumont, December 19th, 1944

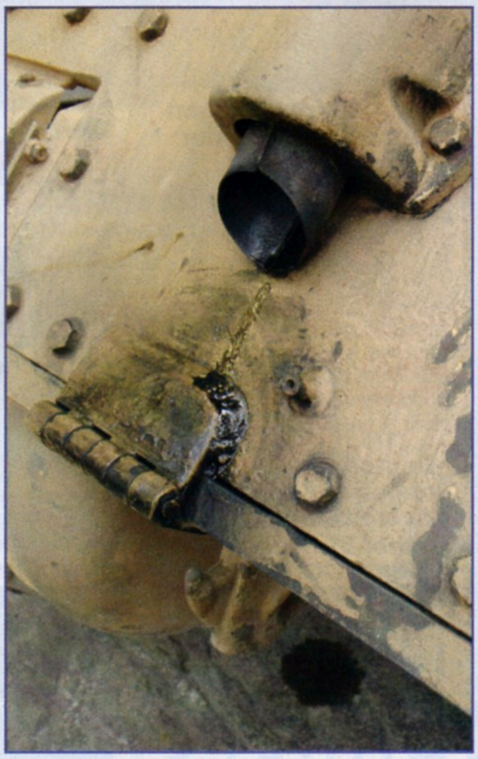
DUAL IN THE MIST
AFV MODELLER PUBLICATIONS
ISBN 0-9555413-0-1

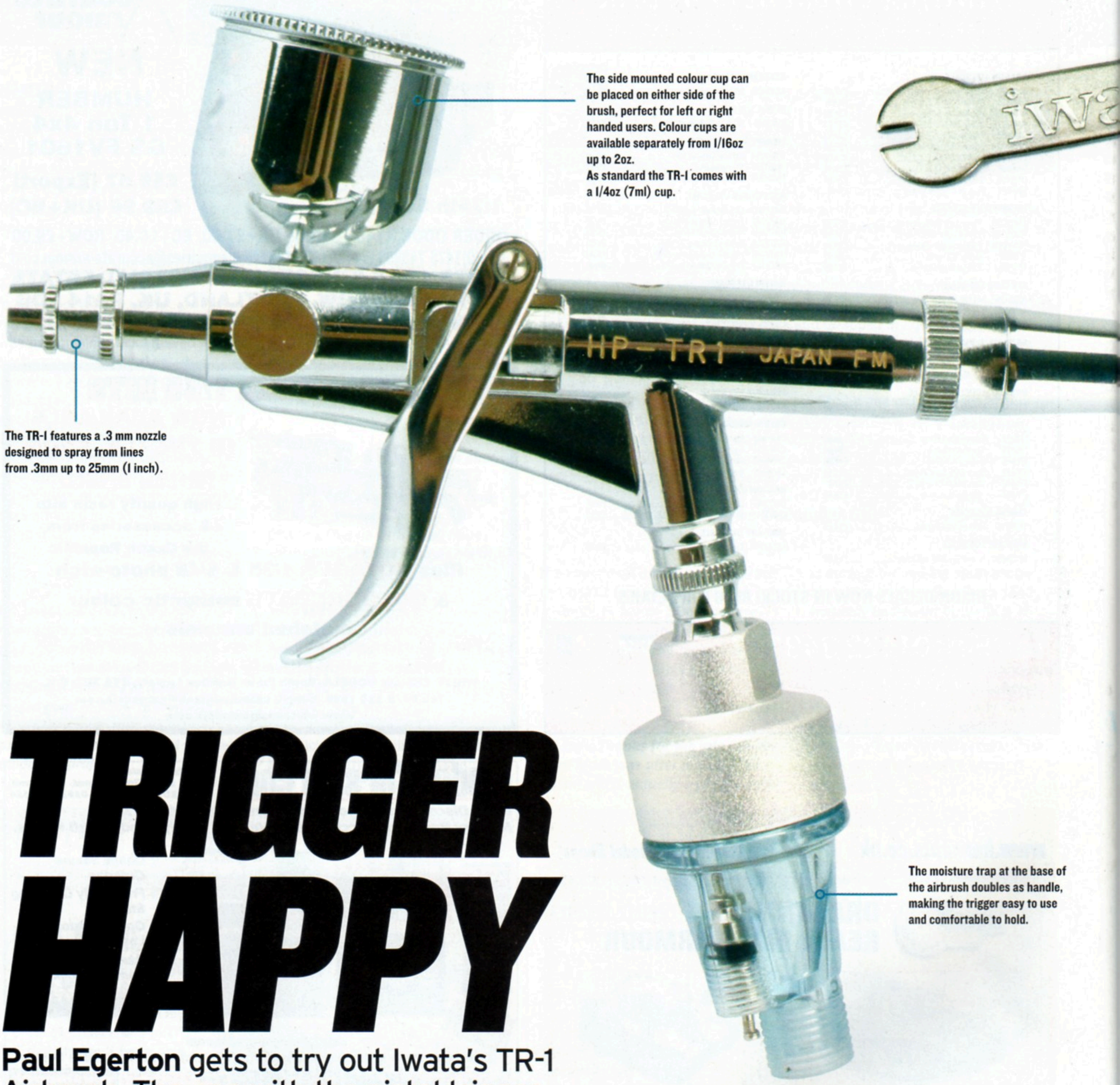
Having just picked up my copy of 'Dual in the mist', I really haven't been able to put this book down. The book deals with the actions of Kampfgruppe Pieper on the 19th December, 1944 during the Ardennes offensive.
The book contains a good selection of large black and white photos, some have been published before, but the difference is you now get the full story behind each photo.
The back of the book contains detailed descriptions of many of the Panthers and the names of the crews which took part in the actions. To finish off there is a very nice selection of colour side profiles explaining the varying camouflage patterns seen on the Panthers involved.
A great book that I'm thoroughly enjoying!

RANDOM REFERENCE!

EXHAUST STAINS

This SU-100 on display at Bovington Tank Museum offers some excellent details regarding the stains and deposits left by the exhaust.
Of particular interest is the dark deposits around the bolt heads, just as if the real vehicle has received a colour wash. It is also worth noting that the exhaust deposits are wet and oily and not dry and sooty as we would expect and lastly, there are some nice big paint chips to the right of the exhaust.





The side mounted colour cup can be placed on either side of the brush, perfect for left or right handed users. Colour cups are available separately from 1/16oz up to 2oz.
As standard the TR-1 comes with a 1/4oz (7ml) cup.

The TR-1 features a .3 mm nozzle designed to spray from lines from .3mm up to 25mm (1 inch).

The moisture trap at the base of the airbrush doubles as handle, making the trigger easy to use and comfortable to hold.

TRIGGER HAPPY

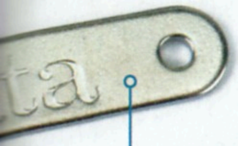
Paul Egerton gets to try out Iwata's TR-1 Airbrush. The one with the pistol trigger.

Just recently, and much to my surprise, the Editor asked me if I would like to review one of Iwata's latest products - the HP TR-1 airbrush. I say my reaction was one of surprise because I'm the first to admit that I model on the 'lower slopes' of this great hobby of ours and you are unlikely to see my offerings reproduced on the pages of this magazine. On reflection, I guess that Spud wanted the 'Club' modeller's perspective rather than that from the luminaries of the hobby who seem to be able to produce staggering results regardless of the materials and equipment used.

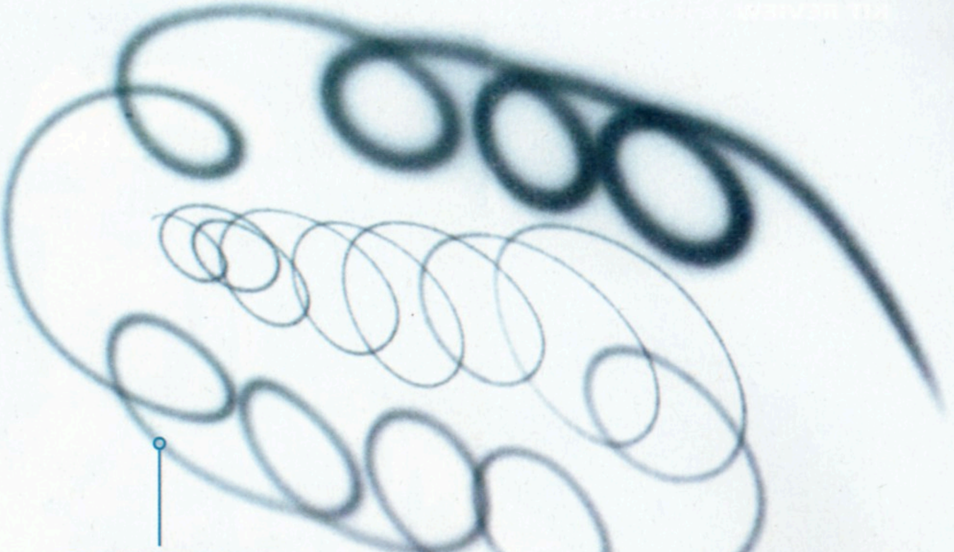
I have been an airbrush user for some time and worked my way from the Badger 200 single action to the Badger 150 double action then the Aztek double action with interchangeable heads and finally to the Iwata Eclipse HP BS which I purchased at last year's Nationals. (At the same time, I purchased and Iwata Smart Jet Pro Studio Series compressor as I was getting tired of chasing my old Revell diaphragm machine around my work room and what a fabulous piece of kit the former is!!) So, I feel that I have served my apprenticeship on airbrushes and whilst much has been self taught through trial and error (heavy on the latter), I have also learnt an awful lot from the pages of this and its sister magazine. However, I'm the first to admit that I would no doubt benefit from attendance at one of Robin Carpenter's courses even at my stage of modelling as this old dog is always willing to learn new tricks.

So, what of the TR!? The first thing to say is that it is well presented in a sturdy box and retained in an expanded foam insert so there is little or no chance of damage during transit. Secondly, as with all Iwata products, it is a beautiful piece of precision engineering in its own right (I was an engineer in a former life!!) but what sets this apart from other 'brushes is the trigger. Unlike what has become the modelling norm for double action brushes where depressing a button on top of the body first releases the air and then by gradually dragging it back, increasing amounts of paint are introduced into the airflow, a single gradual pull back on the trigger first opens the air valve and then releases the paint. This should, in theory, give better control as only a single movement is involved and I'm sure this will be the case but I haven't used it enough to date to overcome the novelty of the trigger, so only time will tell.

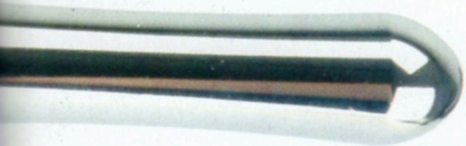
This particular model is fitted with a removable side cup of 0.4ml

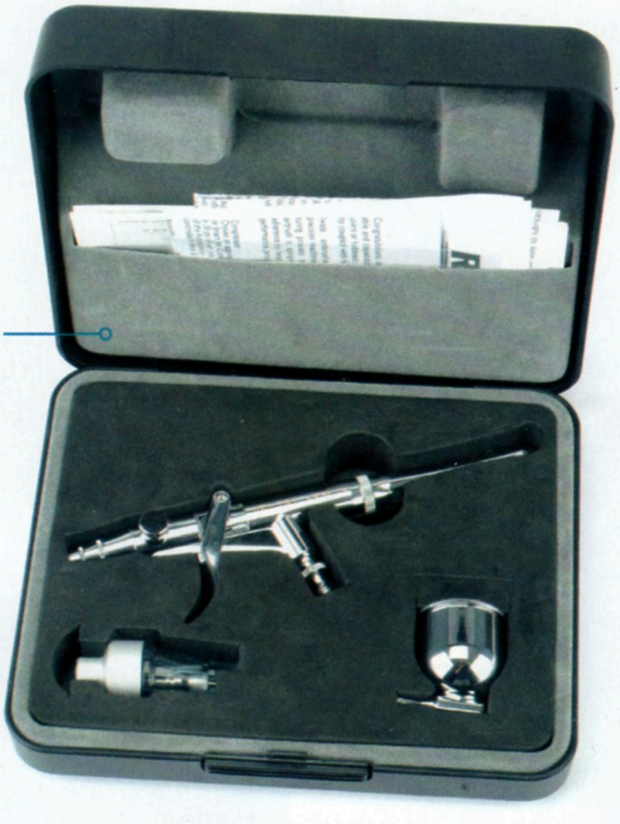


A small spanner is supplied to remove the nozzle for cleaning or when a different size nozzle is needed.

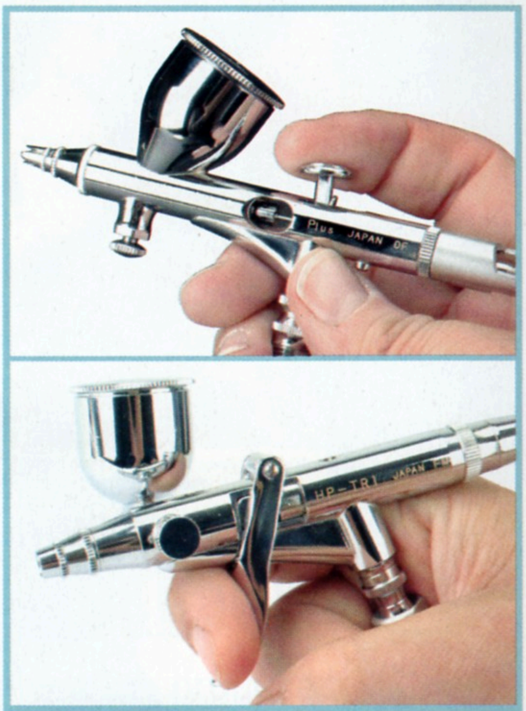


Each airbrush comes with a test card, showing the airbrush has been tested during quality control.





The sturdy box guarantees the airbrush will be safe in transit and when not in use. The pocket in the lid contains operating and cleaning instructions. A spare parts list is also included, just in case.



The author found the 'pistol' style trigger more comfortable to use than the standard press down and pull back style of trigger most associated with this type of airbrush.

capacity which is more than large enough for the requirements of the hobby even if you venture into some of the larger scales. I personally prefer detachable cups as I find them easier to clean. On the subject of cleaning, the instructions imply that for deep cleaning, the needle be withdrawn through the back of the brush but I would have thought that this action would have left any crud from the needle in the body. The very small nozzle assembly can be removed with the spanner provided so I guess removal from the front is an option. I haven't used the 'brush sufficiently to gauge what sort of build up of dried paint might occur but I do clean the brush thoroughly between colours and after use using the Premi Air and Medea cleaning products. A word of warning, be extremely careful when handling/cleaning the nozzle and needle as these are very finely engineered and any damage will adversely affect the operation of the brush particularly when undertaking the finer work.

As I have mentioned, the trigger is immediately obvious when first examining the piece but there is no obvious pistol grip. However, all is solved when the additional moisture trap provided is screwed to the body of the brush at the air connection point, which, with the air hose connected, makes the whole assembly easy to handle.

Now, having gone on at some length about the airbrush, does it work? Of course it does it's an Iwata!! The TR-1 handles and sprays beautifully and is very comfortable to use. Fine lines are delivered with ease and the level of control that can be exercised is excellent. Will it improve my modelling? Most probably but I need more time with it! Should you buy one? Definitely, if you can afford it. They are not cheap but are a precision tool that will provide consistent, high quality results and should last a lifetime particularly if well cleaned and maintained. We are very fortunate indeed in having tools such as this to help us enjoy the hobby even more and achieve better results. ■

Acknowledgements

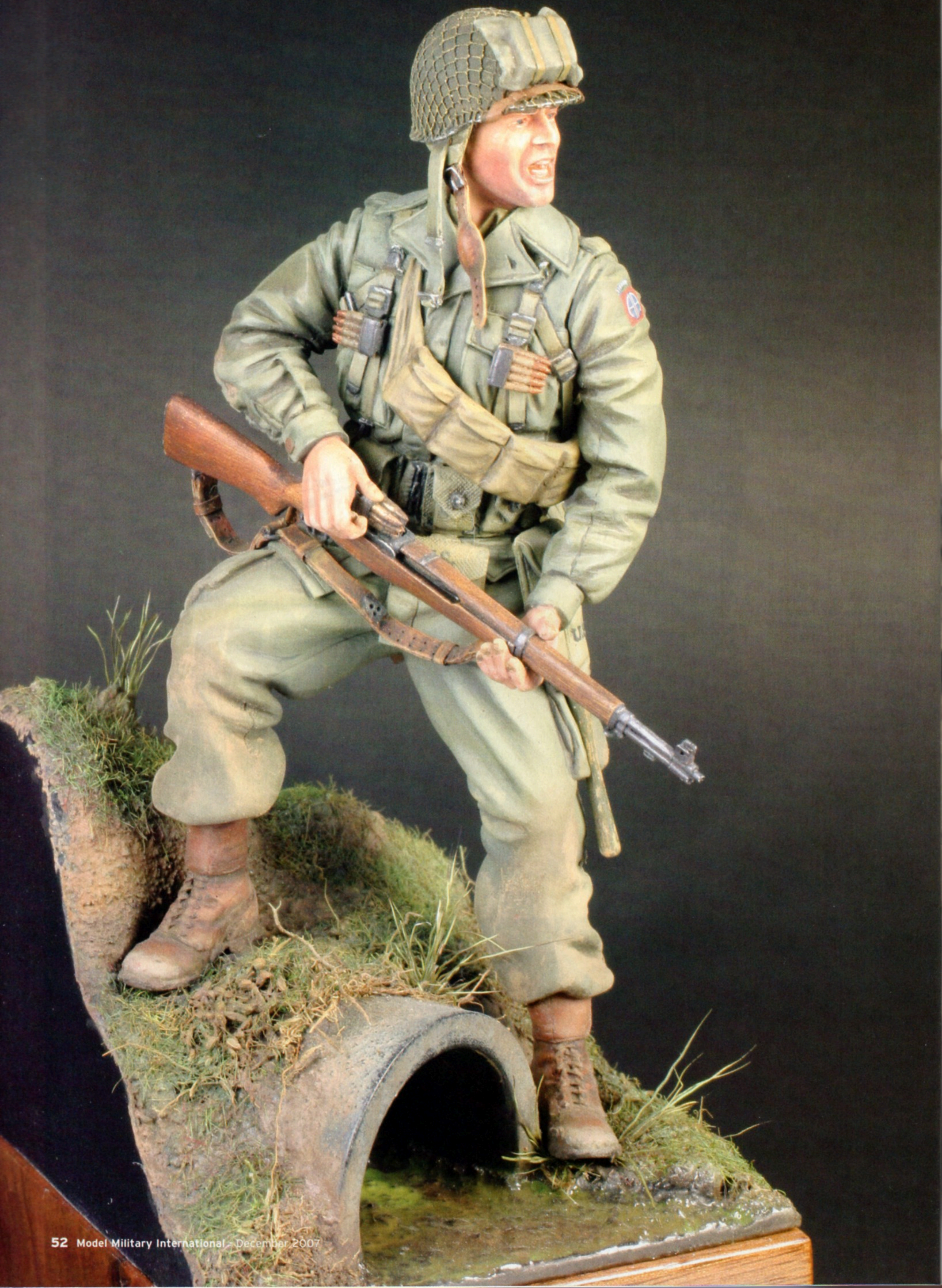
The review sample airbrush kindly supplied by Alex Medwell of the Airbrush Company.

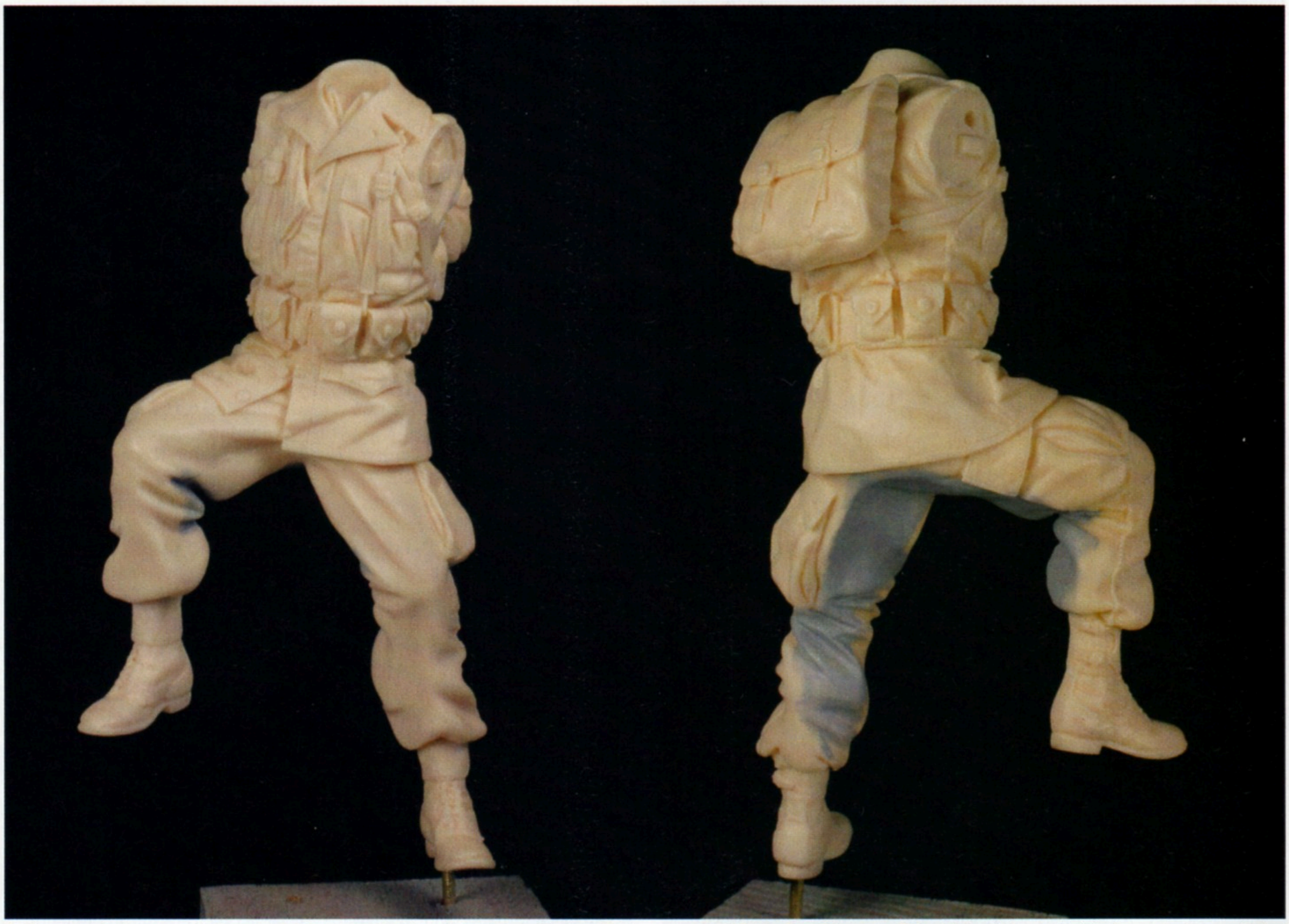
Also available from Cammett

Alden House, Eardisland,
Leominster, Herefordshire,
HR6 9BD

Tel. 01544 388514

www.cammett.co.uk





To fill any imperfections caused by the removal of the casting plug, the author uses a combination of Tamiya grey putty and Tamiya Extra Thin cement. This mix is brushed on to the desired areas, fresh cement is then applied on top to feather the edges of the putty mix. This helps reduce the amount of sanding once the putty has dried.

ALL AMERICAN AIRBORNE

Matt Wellhouser explains the painting process he used to produce his stunning US Para from Operation Market Garden.

Throughout World War Two, the 82nd Airborne Division fought in numerous key battles in Europe. Famous for their fighting in Normandy, they also were a unit that fought in Holland in Operation Market Garden later in 1944. The "All-Americans" had veteran troopers from previous actions in Sicily, Italy and Normandy. They landed more than 50 miles behind enemy lines in Holland. Their mission was to blaze a path for the British Second Army along the Albert Canal. In addition they were to capture the Grave and Nijmegen bridges. The ops plans said they would run into mild opposition from the occupying Germans. The bravery and actions in the battle for Nijmegen was likened to the battles of Tarawa, Guam and Omaha Beach by war correspondents. But as one former paratrooper has told me, "we were used to being surrounded".

THE FIGURE

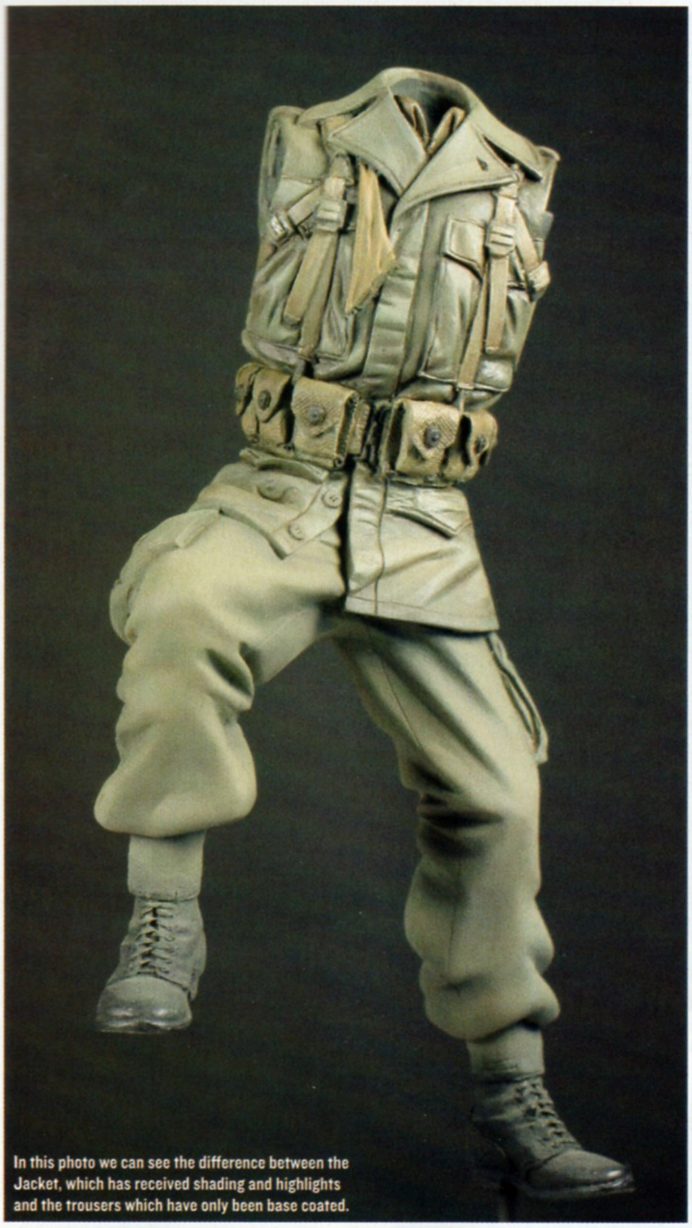
This is a superb figure brought to us by S&T Productions. Sculpted by Trevor Hensley, the pose is dynamic and makes you envision the action along "Hells Highway". Although the box art depicts a soldier of the 101st Airborne, I decided early on to depict a 82nd trooper. The uniform details are the same.

The model is sculpted entirely in cream resin. The main body/torso and legs are a one piece casting. Included is the nice base with a drainage pipe. The scale is 1:16, which is a shade smaller than the typical 120mm figure. The figure is depicted wearing the M43 pattern airborne uniform. This is different to the M42 uniforms used by the 82nd and 101st in Normandy. Besides details of the uniform, it has a much greener shade of OD. The combat boots are also the M43 pattern which have an ankle flap covering the top of the boot. During the war, the troopers complained about these boots and were allowed to use the older full lace-up jump boots. The figure is armed with the M1 Garand rifle.

When I prepare the figure for primer, I use a diluted mixture of Tamiya grey putty to fill minor imperfections and bubbles left from the casting process. I squeeze a small amount of putty on a palette and then mix in a few drops of Tamiya Extra Thin cement. Depending on the void, I use more or less cement to vary the consistency of the mix. Then I use a brush to paint the mix on the area desired. I use fresh cement to feather the putty mix. The dried putty can be easily sanded with a Scotchbrite pad or fine sand paper.

PAINTING

On smaller figures, I like to start by painting the entire figure (except for the face and hands) flat black. This helps define the shadows. I use Tamiya Flat Black sprayed through my Iwata airbrush. I then began spraying a thin coat of the uniform colour. This was a mix of Tamiya Field Grey and a small amount of OD Green. I like to spray from the top down, so that the shadows remain dark and most of the paint stays on the highlight areas- imagine a light falling on a ▶



In this photo we can see the difference between the Jacket, which has received shading and highlights and the trousers which have only been base coated.

subject from directly overhead. Keep your paint thin and spray a little at a time. As the colour is built up, you will see your shadows and highlights appear.

Once I had some basic colour on the figure, I lightened up the colour with Tamiya Dark Yellow and a very small amount of Buff. Then the highlights were sprayed again. This time, make sure the paint is thin, and limit to the tops of the shoulders, arms and legs.

It is important not to get too carried away or you will loose your shadows and highlights. It is best to quit spraying before you think you are done, because the paintbrush can fix any missed spots.

Once the basecoat was dry, I mixed up some Vallejo colours-German Field Grey, Grey Green and a touch of Khaki. Then I began defining the highlights. I work progressively towards a high highlight-adding more Grey Green. I use a very thin mix- 60% water-40% paint. For all acrylic work, the dilutions change, from a milky consistency to something that would look like dirty water. I rarely use paint full strength. Try it- it is easier to add thin coats of paint than to remove a single thick coat!

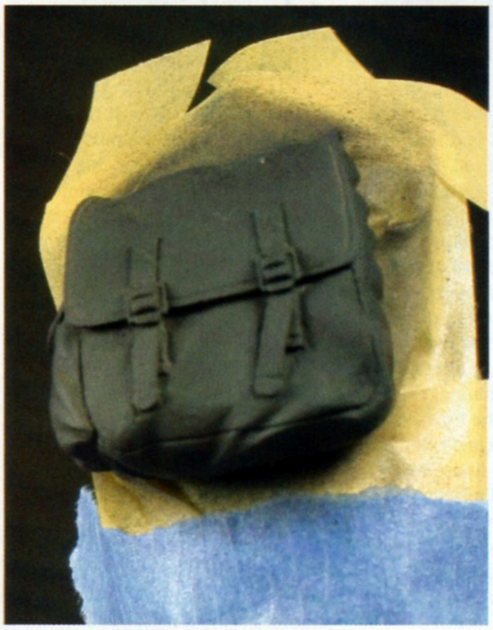
BRUSHWORK

Don't fill your brush and then apply paint to the figure. When you have paint on your brush, use a scrap piece of paper and "unload" the paint by painting a couple of strokes on the paper- then apply the paint to the model. This method gives me control of the paint and keeps it from becoming a big mess. You know exactly how wet or dry the brush is. An overloaded brush will have way too much paint and run all over. The base uniform colour is lightened with Vallejo Sunny Skintone. As I progress with the highlight, I add more water to the mix. It is very much like a wash, but applied very locally. This is repeated until I am satisfied with the contrast. Shadows that need further definition are treated the same way, but black is added to the base colour. Sometimes, I further enhance detail with a pinpoint wash of sepia extra oil colour on creases, seams and around details.

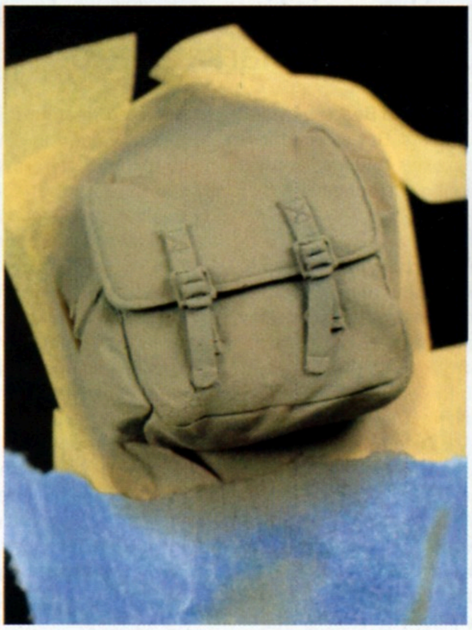
EQUIPMENT

On this figure, the backpack was moulded to the torso. In order to vary the colour, it was masked off and sprayed a lighter OD green. The technique was the same as I used for the base colour- just in a smaller area. US uniforms are basically one colour- OD green. This makes it a bit of a challenge to keep the figure from looking monotone. I mix three or four colours of OD green to use on various parts of the figure. This adds visual interest. All of the carried equipment on the figure was painted and detailed separately, then added at the last step- just so I wouldn't break everything off (the voice of experience here). I used a very fine brush to paint the various "US" logos on the equipment. I use a little acrylic retarder in the paint so it is easier to keep a moist tip on the brush for this.

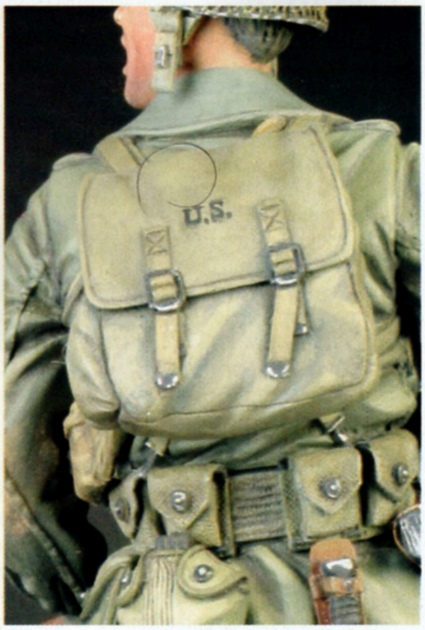
I cheated (don't tell the Editor) on the shoulder patch. Painting an 82nd AB patch that small is for someone with better eyes than mine, so I used a Verlinden decal from their 120mm uniform decal



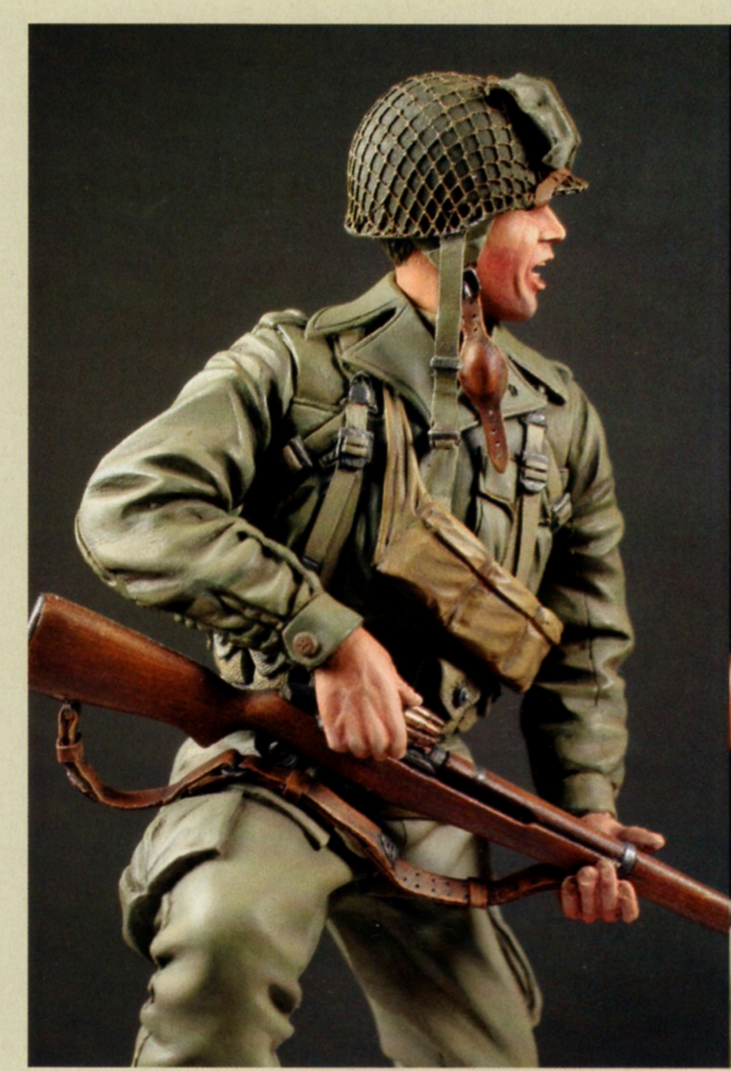
To vary the monotone finish of the uniform and equipment the backpack was painted using a lighter tone of OD. The pre-shading was completed using black applied through an airbrush.

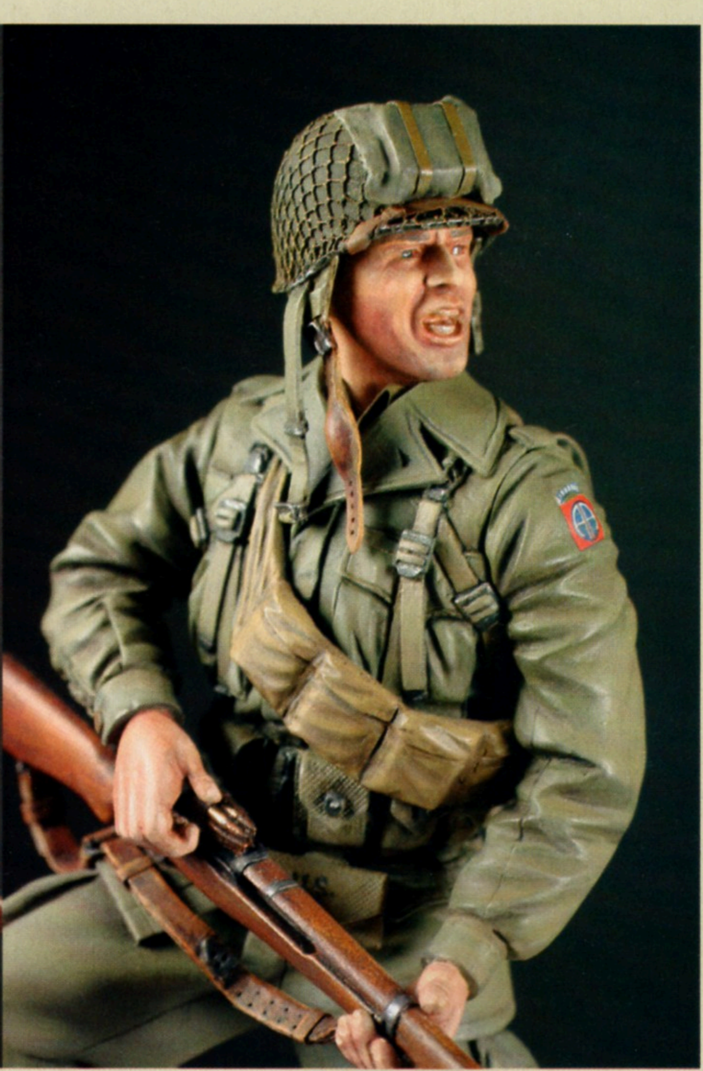


The lighter shade of OD was airbrushed on, allowing the black to burn through under edges and around details.



Some final shading was completed using very thin coats of a darker OD mix. The chipped and scratched paint on the buckles really bring the backpack to life.


In these close-ups the level of detail incorporated in the sculpting of this 1:16 scale figure can really be appreciated.


Here we can see the realistic brass and copper tones of the bullets in the eight clip being loaded into the M-1 Garand rifle.

set. I still had to "fix" the colours with a very fine brush. In the end, a heck of a lot easier than freehand!

FLESHY BITS

The face and hands were painted with acrylics. This is a first with me. I used a paint mix put together by Mr. Jaume Ortiz. The mix is as follows:

Vallejo Paints -
- 876 Brown Sand - Base Colour
- 815 Basic Skintone - Highlights (876 +815)
- 814 Burnt Cadmium Red - Shadows (876+814)
- 859 Cadmium Maroon - Add to shadow mix to produce a dark shadow - not too much!

To paint the face, first I base coated with Sand Brown. Then very thin controlled glazes of the base plus Basic Skintone were added. In the end, the highlight mix was about 70% Basic Skintone to the base colour. Then the shadows were added using he Cadmium Red in a similar fashion. As each thin glaze coat dries, you can go back and add another lighter layer. Several times I had to mix a mid tone glaze to go over the join of a highlight and shadow to kill that sharp demarcation. I use Cadmium Maroon very sparingly with the deepest shadow mix. It is a dark colour, a little goes a long way.

I painted the eyes with a light mix of Basic Skintone and Brown Sand. Then the pupils were painted in. A final coat of Future Floor polish gives the eyes that sparkle.

PAINTING LEATHER

For leather areas, I undercoat the item with a shade of brown- it doesn't matter much which particular shade. For the reddish leather of the jump boots and knife scabbard I used Vallejo Red Leather. Once dry, I apply a thin coat of burnt Sienna mixed with a little raw umber oil paint. This is almost entirely wiped off with a clean brush. I then add depth with a thin application of Sepia oil paint (made by Rembrandt) in the edges and creases. Once the oils are dry, I go back with a light touch of Vallejo Orange Brown on the edges and wear areas of the leather item. I also find it helpful to spray a light coat of Testors Dullcoat over the completed item. It gives the leather that used look by flattening the finish. The rifle sling and chinstraps were treated in a similar way, but with a combination of Burnt Sienna and Raw Sienna colours.

GARAND

The gunstock was finished by base coating the weapon with flat white acrylic. Once dry I use a combination of tube oil colors to simulate the wood grain- it is really easy to make a great looking stock. I use raw Sienna, burnt Sienna, sepia and other browns to simulate the colour. Apply a thin coat and then remove it with a stiff old brush. The bristles will streak the paint causing the "grain" in the wood. For less grain, use a soft longer haired brush. Wipe the brush in a clean dry rag between passes. A coat of clear flat finishes the wood off.

Once dry, I use Humbrol Metalcote Gunmetal to simulate the steel portions of the weapon. Highlights can be defined with a swipe from a silver Prismacolor pencil.

GROUNDWORK

The base was prepared using pigments, acrylic matt medium, Hudson and Allen tall grass and white glue. I base coated the earth with Vallejo English Uniform and washes of black and khaki. Then I added the grass and a few pieces of dried roots from the garden. The drainage pipe was painted with a mix of brown leather and medium grey. Actually any grey colours would work. I used washes of Burnt Sienna and Blue Black oil colours (Winsor and Newton) to vary the tone- armour modellers call it a "filter".

I gave the water area of the drainpipe a coat of dark green acrylic, then about six coats of future floor polish. The mud around the pipe was made to look wet by adding semi gloss clear acrylic to the pigment and matte medium mix.

Finally the base was attached to a wood plinth with two-part epoxy glue. ▶

◄ CONCLUSION

This is a great kit, and a fantastic subject - a little different than the usual D-Day soldiers. Come on, you can do this one in a weekend! ■

Modelspec

S&T Products, resin 1:16 US Airborne 1944
Kit No. 16027

Paints used

Vallejo English Uniform
Vallejo Orange Brown
Vallejo Red Leather
Tamiya Field Grey
Humbrol Metalcote Gunmetal
Others listed in main text

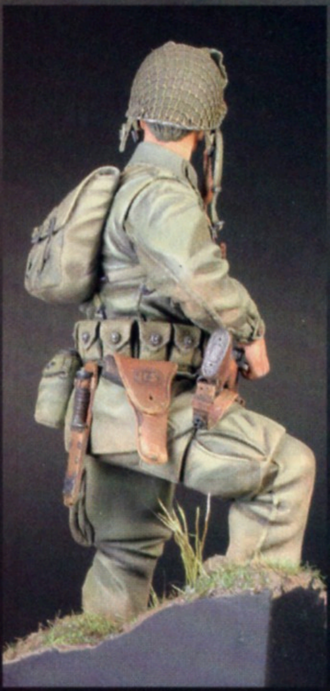
✓ The figure is cast very well, parts fit perfectly and minimal cleanup.

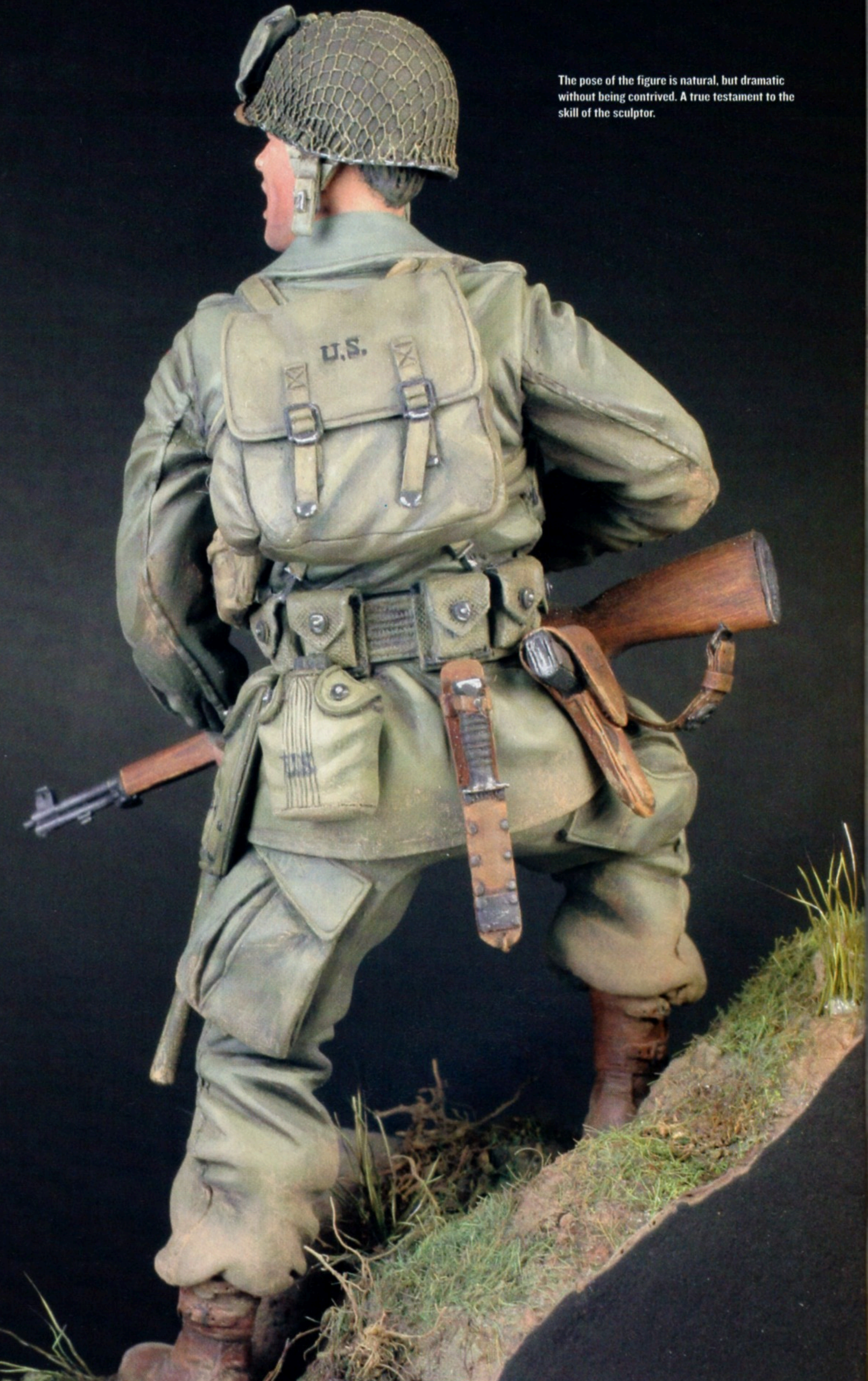
✗ The sling was a bear to fit to the gun. I ended up making a new one out of lead sheet and plastic card. Someone with a little more patience with resin could make it fit better.

Available from

www.afvmodeller.com

Rating ●●●●●●●●●○





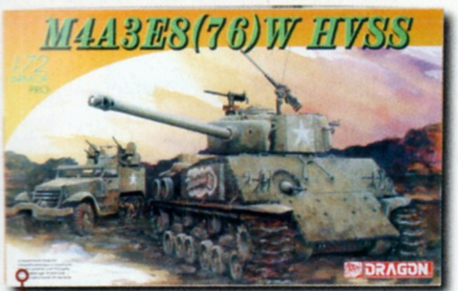
The pose of the figure is natural, but dramatic without being contrived. A true testament to the skill of the sculptor.

MEET THE AUTHOR

I am 50 years old, and I live in Southern California. I have been modelling since I was a kid and I branched out into figures in 1994 after I ran out of room for the planes and tanks! My interest is World War Two Normandy and North Africa. But there are a few subjects that come in close for third and fourth place.

I have a great wife and two children. I enjoy bicycling and photography when my fingers are not glued together.

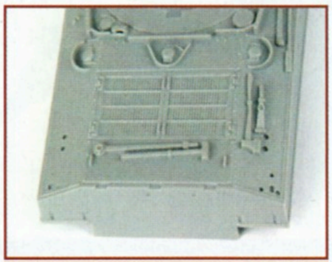
I work for a homeowners association. ■

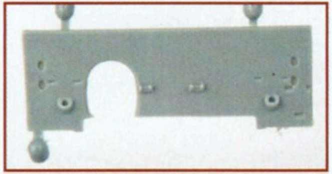


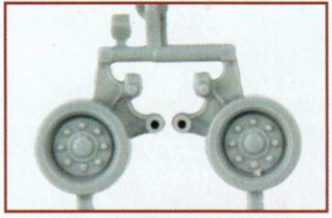
DRAGON

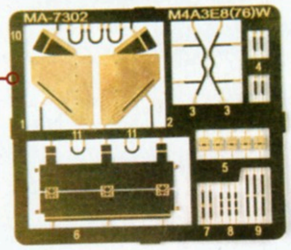
1:72 M4A3E8 (76) HVSS ITEM NO 7302

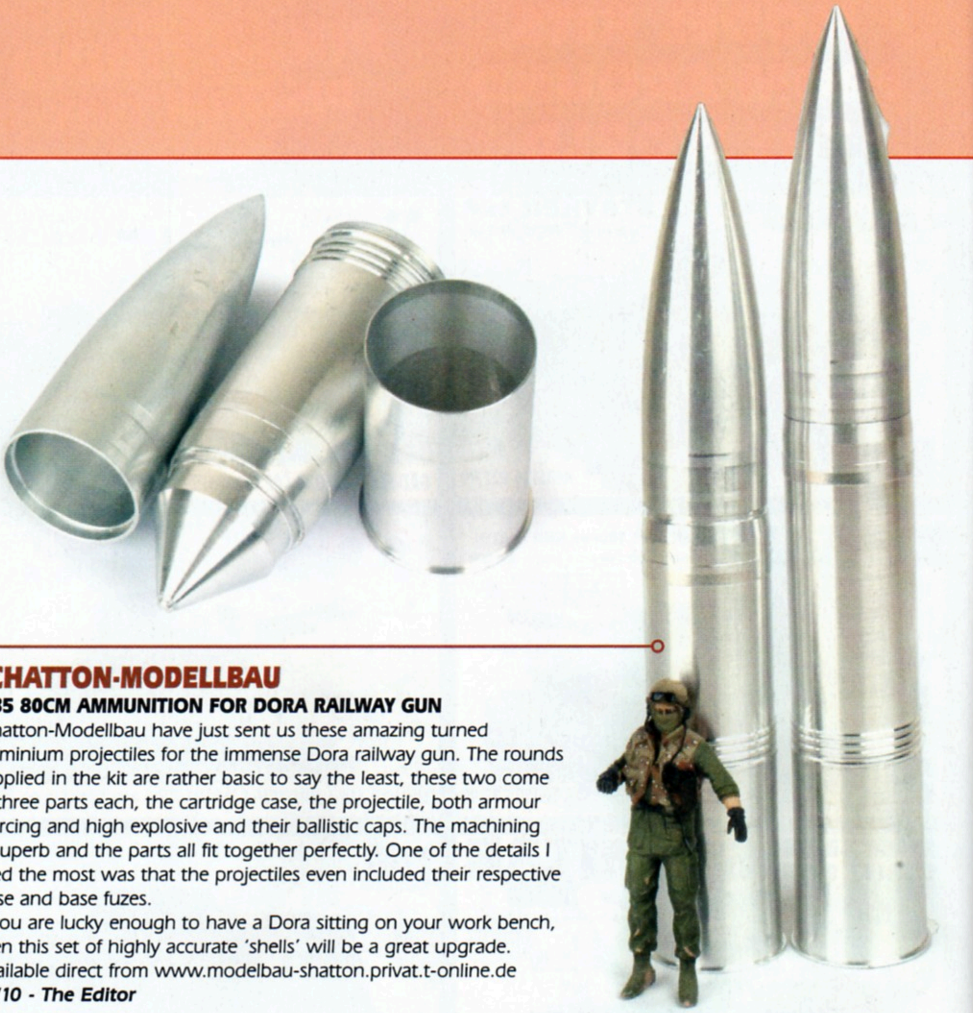
Another Sherman release from Dragon! This time its one of my favourites, the M4A3E8 otherwise known as the Easy Eight by the US troops who fought in it. This kit consists of 161 plastic parts, 27 etched brass parts and a set of DS100 tracks. All the parts are highly detailed and crisply moulded, highlights include separately moulded periscopes on the drivers hatches, easy to assemble seven piece suspension units, weld beads on the hull, a full set of Appliqué armour, a nicely detailed .50cal MG and a bonus a .30cal MG. You also get a choice of 3 different type of main gun barrel. There are four marking options all finished in overall Olive Drab and include Thunderbolt VII the command tank of Colonel Creighton Abrams (after whom the M1 Abrams tank was named) of Combat Command B of the 4th Armoured Division, another is Flatfoot Floogie of the 11th Armoured Division which is my favourite. Care will have to be taken as the full appliqué armour and the additional 30 cal MG was not fitted to all the options so please consult your references. Highly recommended.
Available from all good model shops
10/10 - Jeff Adams









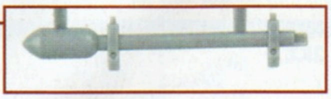


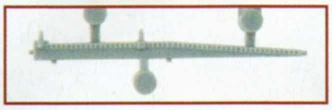
SCHATTON-MODELLBAU

1:35 80CM AMMUNITION FOR DORA RAILWAY GUN

Schatton-Modellbau have just sent us these amazing turned aluminium projectiles for the immense Dora railway gun. The rounds supplied in the kit are rather basic to say the least, these two come in three parts each, the cartridge case, the projectile, both armour piercing and high explosive and their ballistic caps. The machining is superb and the parts all fit together perfectly. One of the details I liked the most was that the projectiles even included their respective nose and base fuzes.
If you are lucky enough to have a Dora sitting on your work bench, then this set of highly accurate 'shells' will be a great upgrade.
Available direct from www.modelbau-shatton.privat.t-online.de
10/10 - The Editor

Sherman Mk.V 'Tulip'
1/72
ARMOR PRO
DRAGON

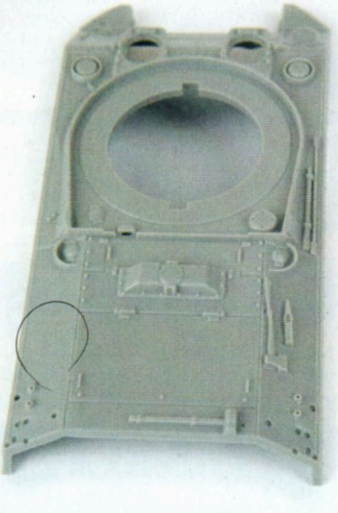




DRAGON

1:72 SHERMAN MARK V TULIP ITEM NO 7312

A more unusual Sherman release from Dragon, this time the Sherman Mark V (M4A4) with 60lb HE rockets fitted to the turret side, curiously called Tulip by the British Army. This kit comprises 154 plastic parts, an etched brass fret of 46 parts and a set of DS100 tracks. As with all Dragons' latest Sherman releases this is a real gem and includes nicely done weld seams on the hull, easy to assemble suspension units which only comprises 4 parts, separately moulded periscope on the commanders hatch and Dragon include two 50 cal MGs even though they are not required as British Sherman's were seldom seen fitted with them. The Rockets and mounting are well done although care will have to be taken when mounting them onto the turret sides. Three marking options are provided, all finished in Olive Green and all belonging to the Guards Armoured Division. Another great little kit from Dragon.
Available from all good model shops
10/10 - Jeff Adams



1/48
model accessories
HLX48203
Crusader Mk.I/II
3inch HOWITZER
(TAMIYA)
Hauler

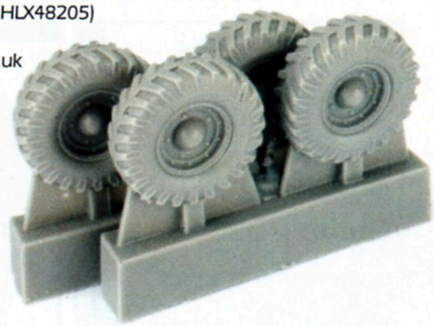
HAULER

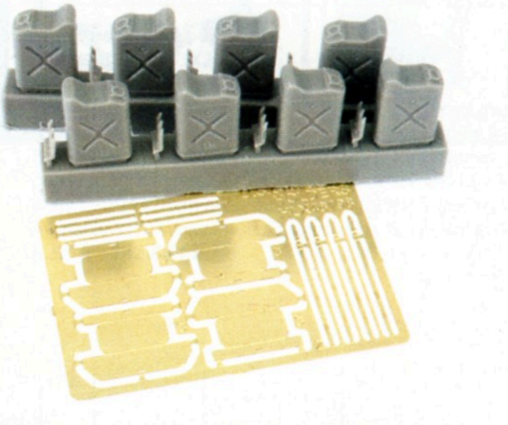
PHOTO-ETCHED/RESIN SETS

To complement the superb replacement tracks for the Tamiya and HobbyBoss KV1 and 2 Hauler have sent us this incredibly long list of sets for pretty much all the latest vehicles available in 1:48.
The attention to detail in these sets is every bit as good as anything available in 1:35, both the resin and etched parts are first rate and will most certainly bring the following to life.

M4 SHERMAN (HLX48160) FOR HOBBYBOSS KIT
PZIII AUSF.J LATE (HLX48167) FOR TAMIYA KIT
STUGIII AUSF.G EARLY (HLX48168) FOR TAMIYA KIT
KING TIGER PORSCHE-TURRET (HLX48169) FOR TAMIYA KIT
KING TIGER PORSCHE-TURRET EXHAUST SHROUD (HLX48171) FOR TAMIYA KIT
4X4 WHEELS (RESIN) FOR VW TYP82E (HLX48173) FOR TAMIYA KIT
SU-76I CONVERSION (HLX48172) FOR TAMIYA PZ.III AUSF.J KIT
PZ.III TURRET BOX (HLX48174) FOR TAMIYA KIT
M26 PERSHING (HLX48176) FOR TAMIYA KIT
M26 PERSHING GRILLES (HLX48177) FOR TAMIYA KIT
FLAMMPANZER STUGIII.B (HLX48179) FOR TAMIYA KIT
FLAMMPANZER PZIII AUSF. (F1) (HLX48181) FOR TAMIYA KIT
SMOKE DISCHARGER (HLX48184) FOR TAMIYA KIT
GAZ-67B (HLX48185) FOR TAMIYA KIT
KV-1 MOD.1941 (HLX48187) FOR HOBBYBOSS KIT
KV-2 EARLY (HLX48188) FOR HOBBYBOSS KIT
KV-1 MOD.1942 (HLX48190) FOR HOBBYBOSS KIT
JEEP BASIC SET (HLX48191) FOR HASEGAWA KIT
JEEP WIRE CUTTER AND BASKET (HLX48192) FOR HASEGAWA KIT
JEEP TOWING BRACKET (HLX48193) FOR HASEGAWA KIT
JEEP ACCESSORIES (HLX48194) FOR HASEGAWA KIT
BROWNING M2 (HLX48195)
CRUSADER MK.I/II (HLX48197) FOR TAMIYA KIT
US CANS AND HOLDERS (HLX48198)
WIRBELWIND (HLX48199) FOR TAMIYA KIT
PZIII AUSF.M/N SCHURZEN (HLX48201) FOR TAMIYA KIT
PZIII AUSF.N SCHURZEN (HLX48202) FOR TAMIYA KIT
CRUSADER MK.I/II 3 INCH HOWITZER (HLX48203) FOR TAMIYA KIT
CRUSADER MK.I/II SIDE DUST COVERS (HLX48204) FOR TAMIYA KIT
2CM FLAK MAGAZINES (HLX48205)

www.hauler.cz
www.armour-models.co.uk
10/10 - The Editor



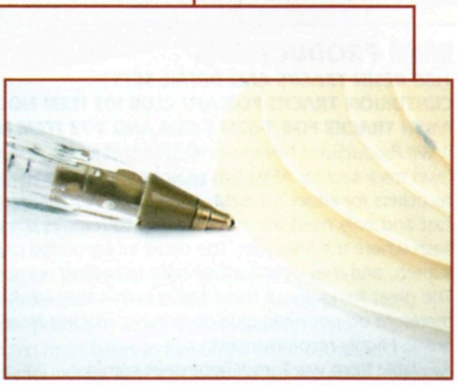


CAMMETT

MICRO-TAPE

0.5mm, 0.75mm, 1.0mm, 1.25mm, 1.5mm, 2.0mm, 3.0mm, 5.0mm. New in from Cammett is this range of Micro masking tape, perfect for all your masking needs, or even for making webbing straps and slings for weapons. This tape is high quality stuff and has been very cleanly cut, with no fuzzy edges which can spoil all that careful airbrushing! Available from half a millimetre up to five millimetres, making them a perfect material for masking anything from gun barrel kill rings to, dare I say, aircraft canopy frames....

Available from www.cammett.co.uk
10/10 - The Editor

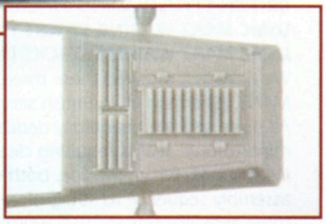


RODEN
709
Sd.Kfz.234/4 "PAKWAGEN" SCHWERER PANZERKANONENWAGEN

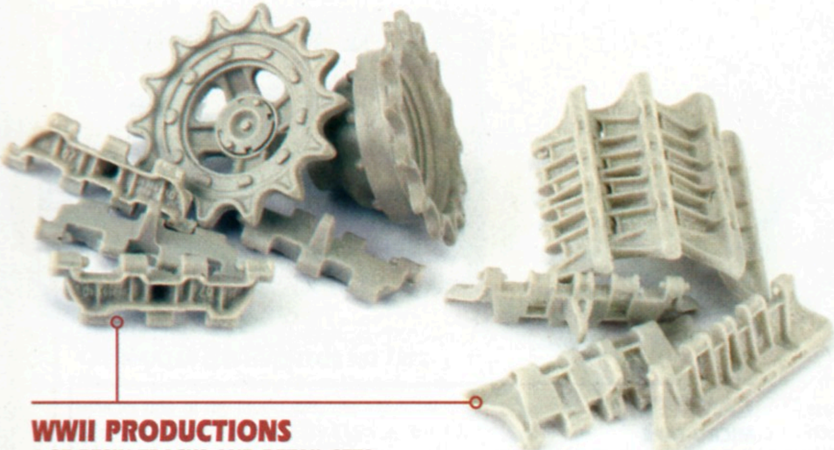
RODEN

1:72 SDKFZ 234/4 ITEM NO 709

It seems that the '234 series of German armoured cars has become very popular amongst braille-scale kit manufacturers and Roden are the first to release the '234/4 fitted with a 75mm Pak40 anti-tank gun. This kit comes with 166 plastic parts and is a nicely detailed little kit and includes separately moulded doors on some of the stowage lockers, easy to assemble suspension units and wheels and the twenty piece Pak 40 main gun is nicely rendered and includes the two piece gun shield which is commendably thin. The only downside of this kit for me is the fact that the sprue containing the suspension units and wheels is moulded in black plastic. Two marking options are included, both late-war vehicles finished in hard edge three colour schemes. Highly recommended.
Distributed in the UK by Pocketbond
8/10 - Jeff Adams



Incoming



WWII PRODUCTIONS

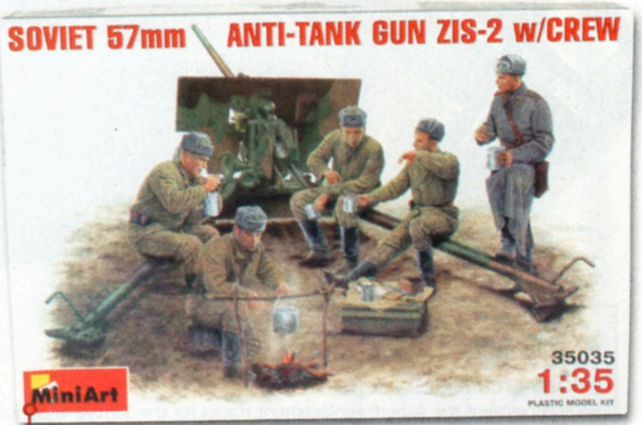
1:35 RESIN TRACKS AND DETAIL SETS
CENTURION TRACKS FOR AFV CLUB KIT ITEM NO.35036
RMSH TRACKS FOR T-62M T-55M AND T-72 ITEM NO.35037

WWII Productions have just released these two very nice replacement resin track sets for AFV Club's Centurion kits and a set of tracks and sprockets for either a T-62M, T-55M or T-72. The tracks are cleanly cast and only need minimal clean-up to remove the ultra thin resin flash where the links join. The detail incorporated on the links is superb, and they even include minute casting numbers!

The great thing about these tracks is that they 'click' together and therefore do not need glue or pinning, making assembly remarkably quick. Highly recommended.

Available from ww2prod@optusnet.com.au

9.5/10 - The Editor



MINIART

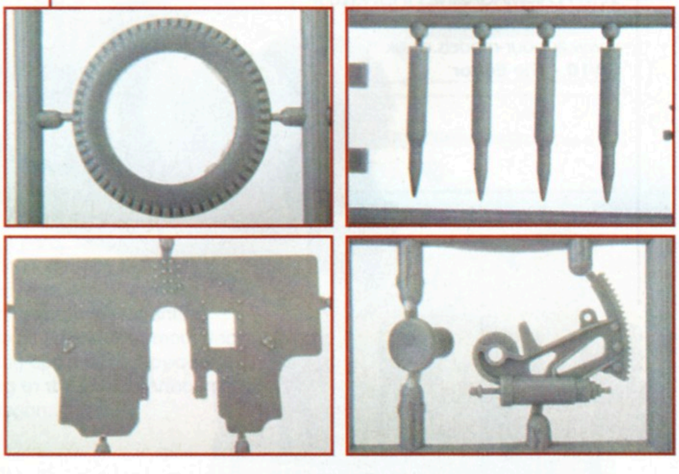
1:35 SOVIET 57MM ANTI-TANK GUN ZIS-2 W/CREW ITEM NO. 35035

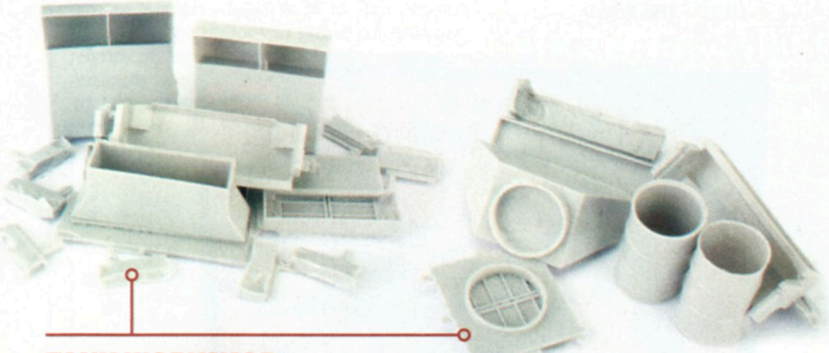
Now here's a nice little set to come out of the Ukraine. MiniArt has produced a little gem with this one - the first thing that catches your eye is the fantastic box art, which is produced by Andrey Aksenov and Andrey Karaschuk. Upon opening the box you are confronted by just three sprues and an instruction sheet. The kit is cast in a light grey coloured plastic, with fine details. The gun is made up of just 79 parts with the odd bit of flash here and there but nothing major. The gun also comes with a few rounds of ammunition and empty shell cases plus two ammo boxes. The one thing that is noticeable is the lack of numbers on the parts. This should not cause any problems as the instructions are very well illustrated and also show two colour camouflage options for the gun. Five figures also come with the gun. It is nice to see the crew in a relaxed manner for a change instead of the usual action poses. They are seen taking a break and having something to drink and eat. Here we are treated to some pots, cups, spoons and even a loaf and some slices of bread. There are also the three sticks to hold the pot above the fire. This is a lovely little set that will look great as a single vignette or incorporated into a larger diorama.

Highly recommended.

Available from all good model shops, distributed in the UK by Creative Models

9 /10 - Glenn Bowen





TANK WORKSHOP

1:35 RESIN DETAIL SETS
BRITISH STYLE WADING STACKS (SHERMAN III) ITEM NO.TWS 0033
USMC M4A2 WADING STACKS ITEM NO.TWS 0034
USMC M4A2 WADING STACKS (ALTERNATE) ITEM NO.TWS 0034A

We have just received these three very nice deep wading conversions for Dragon's M4A2, (Sherman III) in British service.

All three sets are beautifully detailed and nicely cast in light grey resin, with only a few minor mould seams requiring clean-up. TWS have included a clear and concise set of instructions, which include, both colour photos and written information making the assembly sequence as straightforward as possible. Karl van Sweden has produced three excellent sets for TWS which I'm sure will be very popular with Allied armour modellers and especially fans of the Sherman.

Available from www.tankworkshop.com and www.friendshipmodels.com in the UK

8.5/10 - The Editor

T-80 SOVIET LIGHT TANK W/CREW
35038
1:35
MiniArt
PLASTIC MODEL KIT

MINIART

1:35 T-80 SOVIET LIGHT TANK W/CREW ITEM NO. 35038

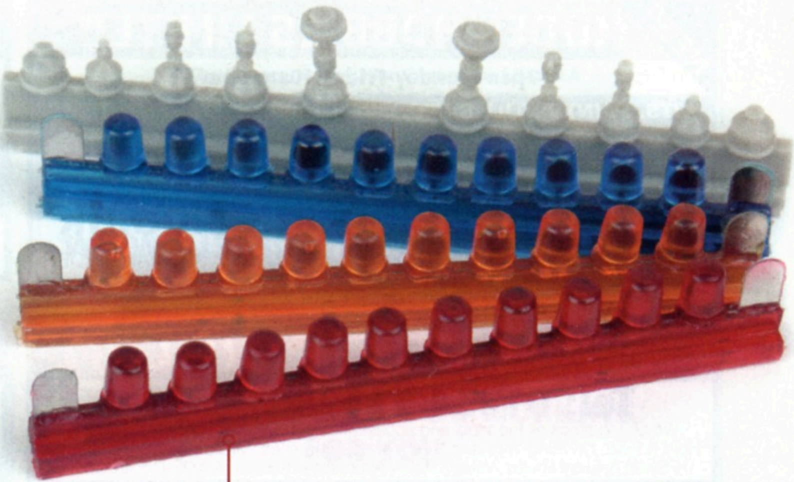
MiniArt has carried on with their trend of little Soviet tanks. Following on from their T-70 they have now released the T-80. There does not seem to be much difference between the two apart from the T-80 having a larger turret to accommodate the extra crewman. The tank itself comes on three sprues with an extra four sprues carrying the individual track links.

There is also a clear one that carries the periscopes and headlight. As a bonus, this kit comes with the Soviet tankers field briefing set of figures which are really nice and can also be purchased separately. The instructions are clear and easy to follow, which is as well because yet again there are no numbers on the sprues to identify the parts. There is no decal sheet with this kit unlike the T-70, which leads me to wonder whether they carried markings at all.

The moulding and casting of all the parts is nice and crisp with only a slight bit of flash here and there but nothing too major. A really nice detail is the fine weld seams on the turret plus the fine separate wing nuts that will fit on the track guards. The track links are also finely moulded and should look wonderful once built up. The five figures are of a high quality also and will look great with either this kit or any other tank. All in all this is a very fine kit indeed. It is well up to the standards of the bigger brands, plus it's an unusual choice of subject, which will always get the thumbs up from me. If you managed to build the T-70 like the Editor did in issue 7 then you won't be disappointed in this one either. If you like your Soviet armour then you'll love this.

Available from all good model shops, distributed in the UK by Creative Models.

10/10 - Glenn Bowen



ACCURATE ARMOUR

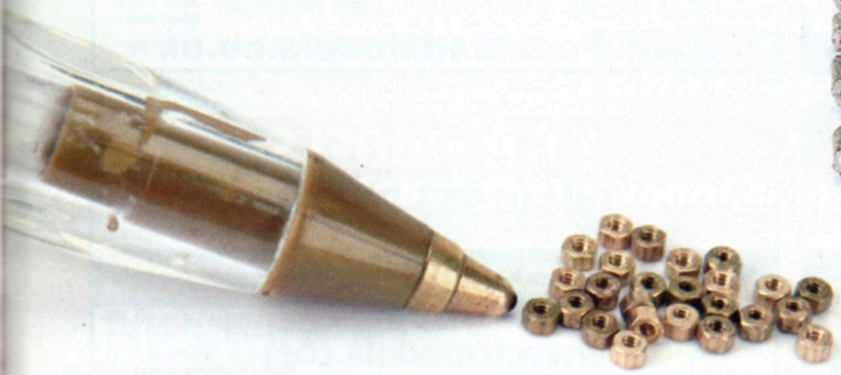
1:35 VEHICLE BEACONS AND BASES
RED A115R
ORANGE A115O
BLUE A115B

Following on from their original orange beacons which we reviewed back in Issue 18, Accurate Armour have now produced a series of sets, which now contain ten resin bases in five of the most common styles of mountings together with ten of the resin beacons in red, blue or orange.

The thing that makes these beacons really stand head and shoulders over standard clear or coloured plastic parts supplied with some kits is the metal reflector cast inside each of the beacons, which makes them look very realistic. A great idea with lots of potential.

Available from www.accurate-armour.com

10/10 - The Editor



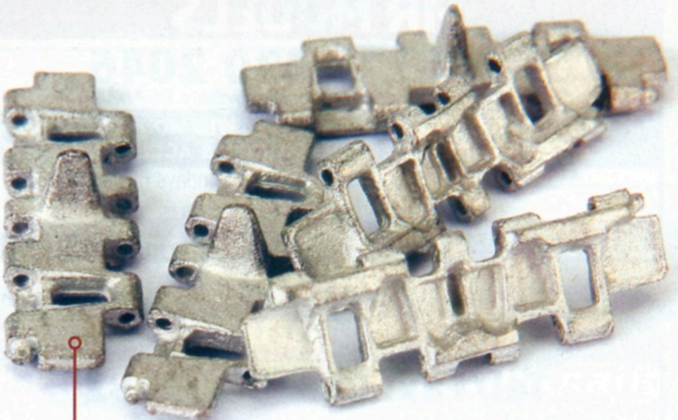
MASTER CASTERS

0.6 BRASS NUTS (X25)
0.8 BRASS NUTS (X25)

New from Master Casters are these amazingly tiny brass nuts in .6 and .8mm ideal for the modeller who wants the ultimate in detail. Beautifully machined including the microscopic thread on the inside of the nuts, I just hope they will be accompanied by the appropriate bolts to make them even more useful for the superdetailer.

Available from www.mastercasters.co.uk or www.cammett.co.uk

8.5/10 - The Editor



FRIULMODEL

1:48 WHITE METAL TRACKS KV-1/KV-2 ITEM NO.ATL-4803

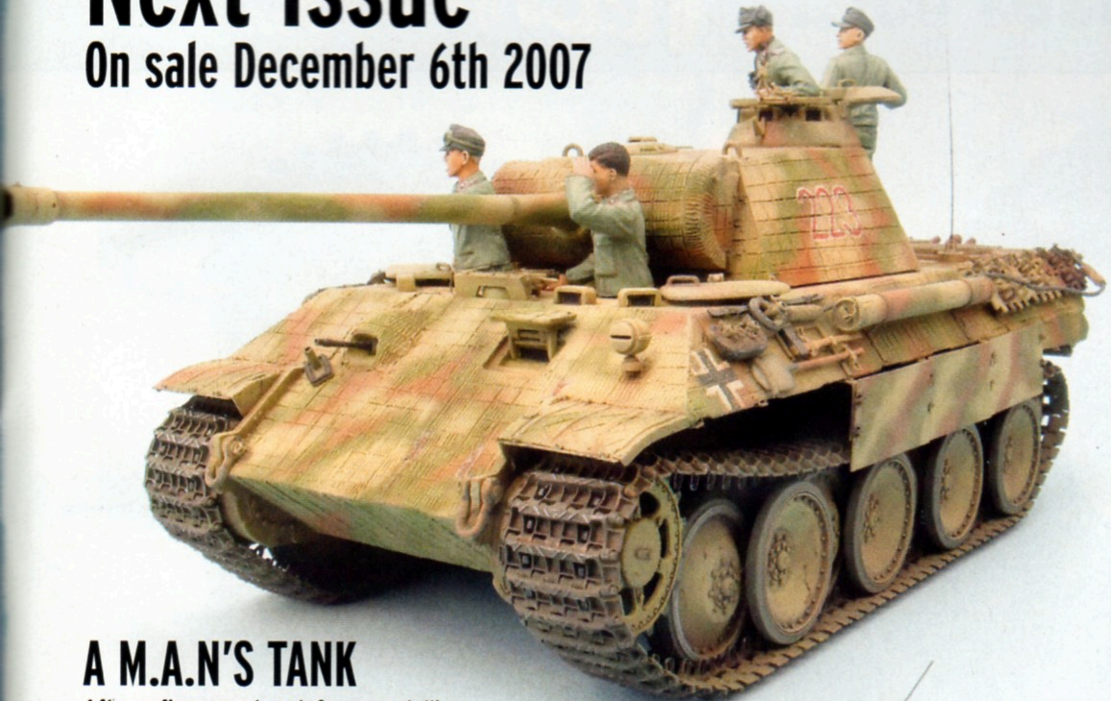
It's great to see Friulmodel are supporting the increasingly popular 1:48 scale armour. The KV is most definitely a tank that will benefit from these individual linked white metal tracks. Great for replicating the characteristic 'saggy' looking tracks associated with these tanks and perfect if you want to build a knocked out vehicle, which has shed its tracks. The link and length styrene tracks supplied in the Tamiya and HobbyBoss kits are OK, but anyone wanting the ultimate tracks should look no further than these.

Available from www.historex-agents.com

9.5/10 - The Editor

Next Issue

On sale December 6th 2007

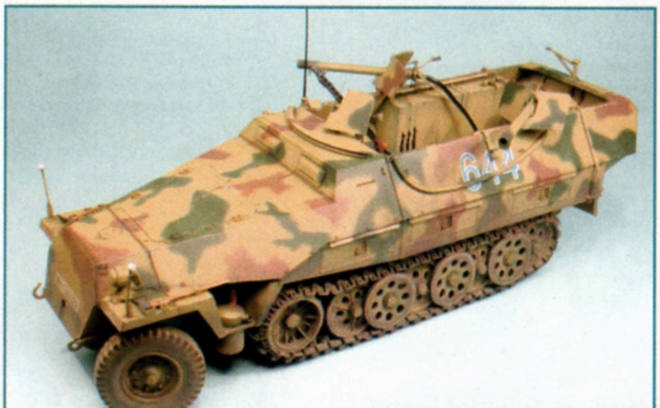


A M.A.N'S TANK

After a five year break from modelling, renowned modeller Phil Hyslop returns with this stunning Panther Ausf A from Dragon

M8KE-OVER

Kev Smith returns with another of his retro builds. This time Tamiya's good old M8 HMC gets a makeover.



DRAGON WAGEN

Andy King builds Dragon's fire breathing halfrack, the Sd.Kfz 251/16 Flammpanzerwagen...

FOR YOUR SAFETY

Don't forget, when using solvents such as glues, paints, thinners and cleaning agents, always ventilate your work area thoroughly and wear a face mask.

When using power tools, side cutters or any tool that can suddenly break or create high-speed airborne particles, wear approved eye protectors with hard, clear lenses. Please always model in safety!

...and much more!

Due to many influencing factors, we cannot guarantee the appearance of the above projects, but we'll try our best!

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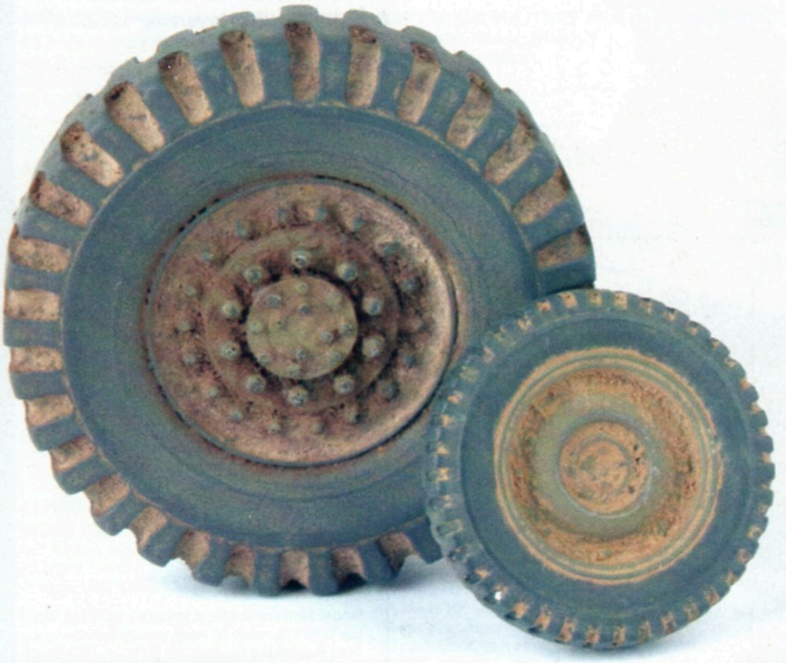


DIRTY WHEELS

This is a technique I have used frequently on the wheeled vehicles I have built - it's perfect for simulating dried mud left in the treads of tyres. The wheels need to be painted fully first, and, if using enamels, left for several days to dry completely as the thinners and cloth used to remove the excess pigment could soften the paint and potentially ruin the effect. ■

Abteilung
modelling oil color
Odourless Turpentine
MIG

White spirit, or in this case, Odourless Turpentine will be needed to remove the excess varnish and pigment.

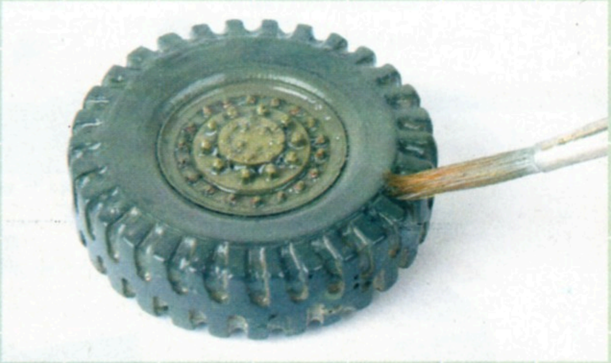
HUMBROL
GLOSS COTE
28ml e

Gloss or matt varnish can be used as long as it is enamel based. Humbrol and Revell's Gloss and Matt varnishes are perfect and are readily available from all good model shops.

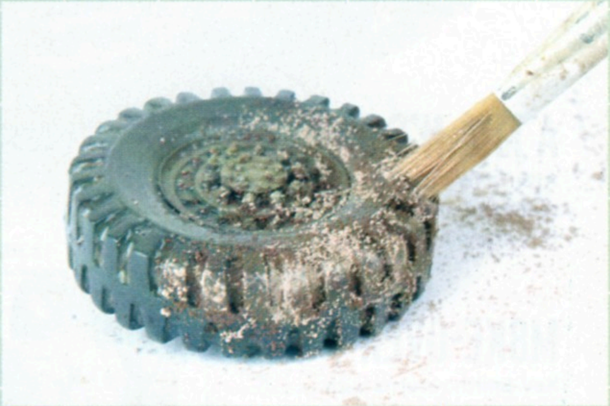
The wheels are painted fully before applying any of the weathering processes.

MIG Dry Mud P232
MIG Rubbel Dust P234
MIG Europe Dust P028
MIG Europe Dust P028

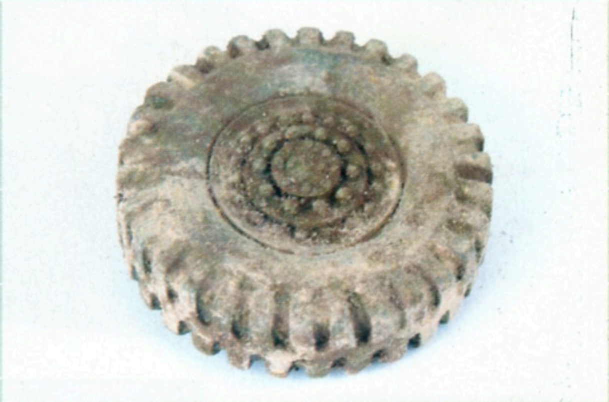
Mig Productions offer an excellent selection of pigments. Here we have Europe Dust, Dry Mud and Rubble Dust. The range contains another 18 or so colours, making them the perfect choice.



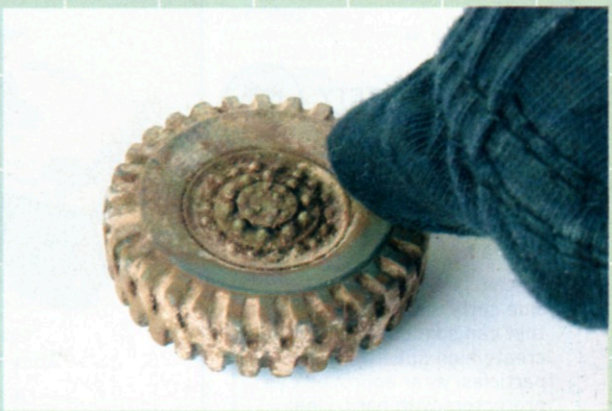
Step 1
The wheel is given a liberal coating of enamel varnish, thinned with odourless turpentine.



Step 2
The wheel is now given a heavy covering of Mig pigment - I used Dry Mud (P232). Make sure all the varnish is absorbed by the pigment, unless a patchy finish is wanted.



Step 3
The wheel has now been covered. Note that the varnish has not been fully absorbed on the hub area. This will remain dark once dry, which is perfect for replicating a leaky hub where lubricating oil has soaked into the dry mud.



Step 4
The next step is to dampen a cloth in thinners and start wiping the excess pigment off the side walls and tread areas. It is important to use a clean portion of the cloth on each pass, otherwise the pigment is just moved around and not actually removed.

Models in background not included with listed kit.

German Steyr Type 1500A/01 (Item 32549)

1/48
MM
MILITARY MINIATURE SERIES
U.S.2½-Ton 6x6 Cargo Truck (Item 3254

Russian Field Car GAZ-67B (Item 32542)

WWII U.S. Army Infantry at Rest (Item 3255

CHECK OUT THESE SCENE-STEALERS

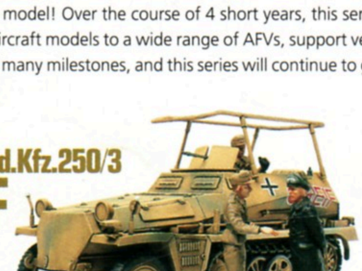
1/48 Military Miniature Series

With the birth of mechanized warfare during WWII, nations focused their resources on developing effective support vehicles. Tamiya offers a number of these creations for our popular 1/48 scale MM Series, including the Soviet GAZ-67B field car, the U.S. 2½-ton cargo truck and the German Steyr Type 1500A/01. Each of these kits is compact enough to fit into the palm of your hand; even the cargo truck at 137 millimeters long! We've also kept the number of parts to a manageable level, ensuring an easy and enjoyable build. The U.S. Infantry at Rest set features figures and accessories that are perfect for non-combat scenes. So when you're working on your next 1/48 AFV or airplane diorama, don't forget to include a few "supporting actors."

50th 1/48 MM Model Coming Soon!

With the release of the German Sd.Kfz.250/3 Greif, the 1/48 scale Military Miniature Series has now reached its 50th model! Over the course of 4 short years, this series has grown from a few vehicles that complimented aircraft models to a wide range of AFVs, support vehicles, and figure sets. The 50th model is just the first of many milestones, and this series will continue to grow with more exciting new products!

GERMAN Sd.Kfz.250/3
GREIF
Item 32550



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